

<210> 10091

<211> 509

<212> DNA

<213> Homo sapiens

<400> 10091

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agttaagaaa cagaacacct tttgtttaag caactaaatt aacacgtgat ggttccttggc   60
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tggacgtagt gtaatggcaa ctccctccac taaaaggccc cgtcaggctg ggcacagcgg   180
ctcatgcttc taatcccaac actttgggag gccaaagacag gaggatgctt gaccccagga   240
gttcaagacc agtcttggca atgtagcaag accccaactc tataatTTTT tttttttttt   300
tgagacggag tctcgtcttg tctcccaggc tggagtgcag tgggtgcgat ctcggctcac   360
tgcaagctcc acctcccagg ttcacaccat tctcctgcct cagcctcctg agtagttggg   420
accacaggcg cccaccacca cgcccggnta ctttttttga tttttaagta nagacagggg   480
ttnactgggg tancnggaa tggncctna                                     509
    
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<210> 10092

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10092

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tcggaagcaa atctcgggat ttcgaaagcc tggcttttgt tttctctgtg tgaaaaaata   180
ttccagattg taacatgccg tcgcttcaag gagtttttag cagcttcctt gatacatgaa   240
aatcttggtc tctgaaagct tcagggtgtg tcttcccaga attggtttca ctatgtgtga   300
tgccctcgct ttcttccttt gggcttggtt gttccttcat cattaggtgt gagatgtgtt   360
atttatagat gcttcgactc ctgggatggc tctttgaaca cagccctgcc atgtcaatgc   420
    
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acagaaagcc ccgatttggt tctgaccggt cttgataatc ttaccgngca cagctttcct 480
anggttaatt tgcaattaat taatttagng acaggnctcc tgggttgcca acctggctg 539

<210> 10093

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10093

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accatcacct gcttgaaatg gctgcaaatt taccatgttc tggcattaaa gtgatttcaa 180
ctctttggac aaattggtgt aacagtaagc accgagattt caaattccca gatgagaaaa 240
aaaaaattaa tcaggaggaa atttatttag taaaaattca aagctaaaga aatgtgagaa 300
ggaagccaaa cccaaaaaac tgtaaaaaat acaatcttct ctccagaatt aggttaaaaa 360
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agggtcttat acacaaatac atgtagcttg atttgcagat cagcctctgg gatccgacct 480
tacctggccc caattagaag tcaaaaacca aaatttaggt aggnaggcag acctntatta 540
aactcagnat cccgttnn 557

<210> 10094

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10094

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gggcttgctc tcggcggttg ccatggacca gcagcacctc cttgatccgg tcctgctgga 180

agcccatgtc actgaactgc tcccagagggc gcaggaactc ccctgcctga ggaagaggag 240
 acagggaggg tgctgggggc tctgctgggc ctggcctcaa ccatggggag ccccagctcc 300
 agtgcctact gcacctagtc ccaaaaagct gtggctaccc ccaggccacg tgagcctgat 360
 cctgggccgc acctgccact tttctgtacc tgtagggtga tgtaggttcc gacctccctt 420
 cctctgccaa ggaaagaagg cccancctg gccatgggct ctgcctgact cttcttccac 480
 ttcttccact nactggcaac tttntgctgg ggcaagaagg ggggcaaaac cgncaccttg 540
 acctggagga caaaannt 558

<210> 10095

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10095

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 aatcctcctg cttcagcctc ccanagtgtc gggattataa gcatgagcca ccatgcctgg 120
 cctcagtagg ggattcttaa agaagacaca tatgcagtga gtggcttgga ttttgaaaga 180
 ggtgtgtgtg aaggccaggg gtggtggccc actcccctcc tgngtgccca ctttcattca 240
 naaccatccc atttattggt cttttctacc agtatctcta caaatcatct ttccatttag 300
 cagcctttcc taggggggtca catagccacc cctnacataa agaatgaggc tnggggtcac 360
 agacaagaca caacaatgta gcccacatcc cgataaaaaa gtgttgggca agcacangcc 420
 ttacactgga atcagaacaa ngggggaagg attcaactta ctctgggaac agaccgacnn 480
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 ggnaaaaaaa ttacttgg 558

<210> 10096

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10096

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agtagagacg gggtttcacc atgttggtca gggctggcct cgaacccctg acctcagatg   60
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tttttttttt tttttttttt taacagacca aagcgtaag agtccccaaa ggagggaagc  180
caccctgcaa tggaatggca gaaccaggat gggatgaacct gaagtctcag gtgtcaagac  240
atcggcacac agacagcttg gtctctccta ccgacaagca catntgtggc cctgtctcac  300
atatgggcan aggggtggctg gcaccgtcct gccttcggca tgttccaaca tccccacagg  360
accctatacc tggaagcccc tacatcattt actgggtttt gtgacaanat ggagacccaa  420
tagagtttcc taagaggagg aaagagtcca cagaacccca cctnaattc agggncnttt  480
ggaccggctc taacttgggg cattgccagg ccaggggctg nacccttttt tcccanagt  540
cctggcacia gccaaaaccg t                                           561

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<210> 10097

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10097

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caaaacaagt gttatttatt ataaaatcag nggcttctga ttagaagact tttttttttt   60
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tccaccagca gtttgnngga cacatcacgt ttctgccaag tgctacagct gaagcccata  180
ttcatagaag caccctgaca gcccttctcc agcaacttcc agaaaacaga acctgagcac  240
tcaaagctgc atcagcccat gtggccttgc tcccaanaa gcatntggcn atttgggcat  300
gggggaacca aaagtgggca gggaattctc cttggctcct taaaagggca tgggagccca  360
gggaaaccgt tcggccccag tgcagccnta ttgggaagga nggatnggna aaaggctgct  420
nggctttttc cttcctnacc ctatggnaag ggggactggc cctttggttc ctt           473

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<210> 10098

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10098

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ganacagggt ttcactcttg tcacccaggc tggagtgcag nggcacgac ttggcttact   60
ggaacctccg ccttcagggt tcaagcgatt ctctgcctc agcctcccga gcagctggca  120
ttacaggcgc ctgccaccac gcccagctaa tttttgtatt tttagtanan acagggtttc  180
accatattgg ccaggctagt ctcaaaactcc tgacctcaag ttatccgccc accttggcct  240
cccaaagtgc tgggatcaca ggcgtgatcc atngngcccg ggccacgtct cttcctttca  300
atgtaggatg tcactcatga gcatcaattc ttcactgcat taaggaaatgt gtgattttag  360
aaagtgcctg agtatagaat tgtgagggtg tggcctatgt cttangcctt ggagaaactc  420
anctagcana gaanaatgga naaagngggc ataacgttat gattgctcaa aactaaatgc  480
ngataatatg accttgaacc tgggaagcnc aaaagcc                               517

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<210> 10099

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10099

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ataacagaaa aatattttatg taatgatggc agctgcaaat tgattgggat gttaataaat   60
aaaaaggaac aagtatcaac tagctgcaaa tgaggaagaa accaacctac ctgaaaacta  120
caaccaaatt ctcatggcta ataagtgatg gcagtgcagc catggcccta atggaagtta  180
gggcagcctc acccactgaa atgttgttta gttggagctg atagcctcag tgttagataa  240
aaattgtgca acacctgagc aacaaatfff tttttttttt ttttggaaat tggcatgtat  300
tctgcaaaga cttgttttag gccagtttta ccccatctgc taaacgcaat gcatagtctg  360
tatcaaccag aagaacccat ctctaaaaac atcaatgttg atagtcaaag accactgtgt  420
tagaacccaa aatcagggtt tggatgatta cctacattag acagagcaat ggtggcacan  480

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gcttgagcat gacaatggct catatggttg acncaaaagt aaccaattct nggtgcnttc 540
aggaggaatg cctgct 556

<210> 10100

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10100

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agcaaggtat accttttaca gacaatagtg gctctgagcc aaacacgagc tcatgtgagt 120
tgttacctaa tgggcctcat gtggtgtggt tacataacga gcaaggttgt gtgcttgcac 180
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acagccattt cccttacact acaccccta ggctgagggc gtcctccagg cagggacaca 300
tgcctatatg gcggagccct gattccataa cccacaacaa caatacagag agcaacagct 360
cactactagg atctcagcta tgatacttat gactattagg gcccaatgta cgccagaacc 420
tagggatgct caccatctnt gcaaggggtt gacagtgang cttttcagtc accttaattct 480
nctggaanac ccttttgaag gctggtggta tggctctgctg aatgncangg ataang 536

<210> 10101

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10101

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ntaaagcagg aacagcaaac agatTTTtcc atcacatgac accctcagct gattggccat 120
aactgccttg actgctgtgt ggacaaagat tccaaggatg tactttggct ccatgggaag 180
gactactgca atttatttagc ggtatctgta aacatgggga ataaatctga aacctcacta 240

gccatacgag aagccacagg caccaanact ggcggntcca ctgccaaagc cagcactggt 300
 gctcgggtcca ccaccaaagc cagcaccagt gtttgggtcca ccgccgaagc cagntcctgt 360
 gctcgggtcca ccgctgaagc cactggtgct tgggtccactg caaaagccaa caccagtgt 420
 tgggtccaccg ttgaagccaa caatagaact ggggccacta ctgaaccccg tgctggngct 480
 gggttcncag taaagccagt gcttgggggtt ggaaccctgg cnaagccaat ggtgggccta 540
 aacctttggg n 551

<210> 10102

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10102

ggaaacaaac caaaaacttt atttataaaa gtaaatttta acttgctttt atatgtcata 60
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 ccctagttaa accataaaac tttataaaca ttgcttttagc tttgatgttt gggtcacgttt 180
 gttgtgcana agtcacgttt cagggtaggt tcaccgccag acacgggtcac atcaccattg 240
 gctgnggatt tccaagaagc aaaggagcca atctcagcaa agctcgcact ggcattttta 300
 gctgcttaaa tttgaagagc agttcagcaa agcttgnct cccttctagt cctatagggt 360
 gcagggtgctg tggagctggc acagagtggg agacgaggaa caggccagca tgctcagctg 420
 ngattcctcc aanggtgnc cgctgangta ngcgtgcaca cacattttac ccccgacttg 480
 gacccctggt ccagggatta tcaatggggc nctttacaac agggngggaa ttccagttcn 540
 taaaaac 547

<210> 10103

<211> 462

<212> DNA

<213> Homo sapiens

<400> 10103

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ccttttactg cccatttatt accgtgcggg ttaaaaaacg ggaaaagagg cggggcgtgg 60
tggtcaccc ctgtaatcct aacacttcag gaggtcagg caggcggatc atgaggtaca 120
cgcccaggga agagaaggga cttgtccaaa tgtcactcaa gtacttggtc cataacatta 180
agctttgtaa ttcaccagg taaatgtgac atcactgttc catccaccct accaacactc. 240
caaagaaact caacttcctg ttccctcttg aggaagtaaa acttaccaga taaaaagggg 300
aacgaggtgg tggggggggg ctggccgtcg aggccggggg ccaccaaacg aggtancagt 360
ggagggangg ctgggggggac canaacgcaa tgtcagngtg tcaggctcat ccttggaac 420
aggcannccg ggataccatg gtgacaggca agggancggn cc 462
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<210> 10104

<211> 531

<212> DNA

<213> Homo sapiens

<400> 10104

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tgcctgccac cagccccagc taatttttgt attttttagaa gagacggggt ttcaccatgt 180
tgaccaggct ggtctcgaac tcctgacctc atgatctgct caccttggcc tcccaaagtg 240
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tcttgggctc aggtgatcct cccatctcag cctcccgagt agctaggatt acgggcatgc 420
gccaacatcc ctggctagtt tttaaacaat tttttgtana aacangggct tgctatgtgg 480
ccaagctggn cttgnacttc tggactnaag ccacctgaa ttnggcctnc c 531
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<210> 10105

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10105

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cagtgtcttc agtgaagttt actgtatatt ataaacagtc atagaattca aagacaatca 60
tataaccaac tcttttggat ggcttaggat gtgccaggta ctgtgctaag gacaagagat 120
ataaccagat acaaaccagt ccccatcctc aatcattact tattcactca acaaataatt 180
ttgagtactt accctgcacc aggactagg gatataacag ataaaaatta agtctctcgc 240
ttcatgaagc tttcattctg atagaggag acaggcaata agccaaataa atggtttatt 300
ccaccacccc ttcaagtctt cactcaaagc ttcctttttc aatgagacta tataaccaac 360
gtatttataaa tttcaaccac catcctgcat tcaactgctt tcatcttgct aaggnagtta 420
atatgtgtta atttgactga ccacaaggng cccagatact tggncaaaca ttatgcctgg 480
gngngctgtg aancatggnt ttggatgaga ttaacatttg gaatcagtc cctggataaa 540
gcttattttt ttttcccagg ggna 564
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<210> 10106

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10106

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caacctccgc ctcacgggtt caaggattct tctgcctcag cctcctgagt agctgggact 120
acagggtgcgc accaccacac ccagctaatt ttttttgtat ttttagtaga gacagggttt 180
caccatattg gccaggctgg tctccaactc ctgacctcat gatccgccc cctcgacctc 240
ccaaagtgtt gggattacag gcatgagcca ccacaccgg caatttttgt attttttgta 300
gagacggggg tcttgctatg ttgtccgggc tggctttaaa ctctgacct cgagcagtc 360
tcccaccttg gcctcccaa gtgctgggat tatagacatg aggcacggag cctggctctg 420
tctccctctt taatgagtaa attttataaa ttgccaacct accactagtt agtacacagt 480
gactgtagtt gtcanaagct taaacgtgta tctgggcac cgggttcttc tgnnttctgg 540
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ggagcacttt cctn

554

<210> 10107

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10107

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 caacctccac ctctgggtt caagcgattc tctgcctta gcctcccag tagcttggat 120
 tacaggcaac cgccaccacg cccggctaatt tctgtatatt ttagtagaga cagggtttca 180
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 gtattatctg tctcatcccc actagaaagt cagctccatg aaggcagcaa tgtttgtcta 360
 ctttgttccc tgttgtctcc aaagtgtcta gaacagagct ttgggcctgg gtggccctca 420
 caaacagtaa cngaattgaat gaacncagac aagganaaan ggctntgaac caaacttaca 480
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<210> 10108

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10108

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 caacctccac ctctgggtt caagtgattc tctgcctca gcctccctgg gattacaggt 120
 gcacgccacc acaccagct aatttttgca tttttagtag agatgggatt tcaccataat 180
 ggccaggctg gtctcgaact cctgacctca agtgatccac ctgcctcggc ctcccaaagt 240
 gctgggatta caggcatgag ccaactgcact cggcctccaa cattccacta ttccagataa 300

tgagaggctt tgagtctaca gggcattctg gggttacttc tatctctttg agcctatgac 360
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 aactttccat ggccctcaag tgtgtgggct tctgntgcaa ggnctcatgt ctttaagtgag 480
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<210> 10109

<211> 439

<212> DNA

<213> Homo sapiens

<400> 10109

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 caggtgctgg tcgtaggctg gatgtgttga atttctccat gatgggggtcc actgcaccca 180
 ctgtggccag gagagcagaa caactagtct ctctccacc atccagaaca gtgcctcttg 240
 cagagtctcc tcgggaaact taccaagtct gatggtaaca ggggcatggg accatcctaa 300
 ctgggaagac aaaaaggctg agaccttccc agagtcacct tgggagtgag catgggaaca 360
 tggctgaaca ccaagacaga gccaggctgg actgcagtag tgcaacctng gccactgna 420
 cctnccctn ccgnttnan 439

<210> 10110

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10110

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 agtagtggtc aaacttttat ttttacagct aaattcctca agcagatggg ctctgtgtg 180

gaatcacaat gatgctggtt aagattcact gaatgcttgc tatatatcag gctctgtttg 240
gagcccagca tatatatata tataatctca gttaatccca cagtacctga tgaggagggt 300
actgctgttt gtcceattta ttttttattt atttatttta ttttattttt tttgagatgg 360
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ccgcctccca ggttcaagca attctcctgc ctcagccttc caagtagctg ggattacagg 480
cacgcaccac catgcccggg taatttggtg tcttttttan tagaaaatgg ggttctccat 540
ggttggtc 548

<210> 10111

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10111

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cctacctcag tgacctcaaa acacaaggac atctccatag ggcatcaaca tgcatctgtc 180
atccaagaat ctaagaactt cctgacctt ccacattttc tatcaataat attgccttct 240
gaggttatgg attccaggtc ttctatgaaa taggtaaagc ttcttttcgc gttccaagaa 300
atatagtttg cgaagggaac tggaaaacgt gactctaggc ctcagccact tcctctgtta 360
ccctgtgcaa gttgtagaac aatccacgtt ctcacagctc cccttctca agttgtggag 420
ttcttcaagg tggacagatc acacctcagg aagtcattcc ttgnagccc actagaatta 480
tcataaangc agtcggctt ggtagttttc ttgnnccag catcactgng ccaccaenta 540
agtctn 546

<210> 10112

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10112

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tagggagact ggatgaggat ttatataact caggtgtatg accaagtctc ctttgtctga 180
caggccttat tatgaatgag tgtggtagt agtaagctct aagacagccc ccagggatcc 240
cagtctcctg gtgctcacac ccttgagagt tctctgtctc ctgagtgtgg atgaaacctg 300
tgacttcctt ctaaccatca gaatccagca aagaccgagg gatgtcactt ccatgattac 360
actgcacaag gttgtaactg ctgtcttggt agactctcca ctgccttctt ggtttacatg 420
ctttgatgaa ggaagtggcc atgttganga ngttcacgtg gaaacaaact gaaggtggnc 480
ttcacagatg gacagtncca actaagggcc tcaatccatc ncttggangg gaaccaaate 540
ccacaacct 549
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<210> 10113

<211> 466

<212> DNA

<213> Homo sapiens

<400> 10113

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agatcgaatt tcactctgtg acccaggctg gaatgcactg gcacgaattc agtccctgc 60
agcatggacc tcccaggttc aagtgatctt cccacctaag actactgagt agctaggacc 120
acagggtgtg cccaccatgc ctggctaata attttttttt tttttttgct agacacaggg 180
tctcaacatg ttgcccaggc tggcttgaa ctctgggct caagcgatcc tcccacctca 240
gcctcccaaa gtgctgttat aagcatgtgc caccaccac tctggccttg atactctttt 300
ggtaaaaaat atactagtat tagcattctg tggccaggaa tgggtggctca catccatctg 360
taatcccagc attttgggac gccaaaggcc gaggattgct tgagcccagg agtttgagac 420
cagtttggag aatatggcac actgtttctn cnaaaantnn attntn 466
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<210> 10114

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10114

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tcatattaac caagaattca ttcattcttc ttttgatatt gtaatcttgt cctcatctcc 120
acaactgagt tggggcctga ggggtttaag agttctcact ccatcacagg aggcaagggg 180
tacccttggtg aaccagactt caactcctgg aagtcttggt cagttcatag gcaaatatct 240
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taggcatttg gagagggaaa aggcacatta cacagattcc cctggagaaa atacaggcca 360
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tctatgagaa accataaccc acgtgctact gaatacattt ttattttccc ttcattgacat 480
anacttgggt tccagtatat ttaatttcc tccntatgnc tacaagacat ncaantttgg 540
tcagggc 547
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<210> 10115

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10115

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agagaaagtc tggaggttta ctcaacaacg ttcacaatca caattgtaca tggtaaataca 60
gtctttcaca aaggcttatt tttccaggca ggaggagagg ctggtggtct tgagcttttg 120
gcctggaatt ccagtctgaa ttttcaaata ttccctgcct ccaaccctt tgggataccta 180
gtcttcaagc caataacaga gcaggagtct gaccctgttc tgttgcttg catggctgaa 240
tcaaagccat tctggaagca gatgttaagg tgaacttgct acttggtatg taggtccgac 300
tcccatccca gaggtggcag tgggccttgg ctcaagatca agtttgaact aaaatattac 360
ttggattttt cacaagaggt gtccgttgaa agcaataagg aattccagaa cagaactgca 420
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cttcttgtcc ctctctcaca cttacaaagc ttcagaaaac attaaaaatg cattacctct 480
 aggaattcna aagatcaccc aactgtncaa actagatatc gctgaagcag aaactctgan 540
 tcctcagtac tac 553

<210> 10116

<211> 578

<212> DNA

<213> Homo sapiens

<400> 10116

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 aaggatatac tttaaaattt tacagtaatc aatatcataa cagcagctaa cagtacactg 120
 ggtgaggatg gtacttaaat aattatttat tgagttgctt acagaagaga ggtctcccaa 180
 gtcccaaate aacttcacaa atatatttat agtacttaca atatacaaaa acctttttct 240
 aagctctgcc ctacagatta ataaaaagga gcttaaaatg aagggaagga gagagaaaaa 300
 gacaaaagat taatacacaa gttatggtag ttctaagcag gaaagaagct gcttaacttg 360
 gttgggatgg gagaggggtg gtttcaagcc agaagctgaa cagcatgttg agatgctaaa 420
 ataaggaaga tattccagaa agaggacagg cacagaatct ccacgtgaaa tttcctgtag 480
 actagtaaga aaatcaagtg agatcaacag gagaaagatn taagaagaaa actccanggc 540
 caggcacacg gntcatgcct gnaatccagc ctttngga 578

<210> 10117

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10117

ccattaatct ttctggagaa cctagatcct aagtcgaaaa acctactgaa gtatatcaca 60
 acctgtaagt aggtacagat gtctgaggcc tatttagaac aacagtgtta gaaaggcgct 120

tccttacctg ttagacaaag gcgacttccg gccaaaccca attgccccca ggatcccaga	180
gctgagtctc tcctcagcca cgaggttctg cctgtcttga accaagagca gaattcgaat	240
gacagattct gtcaggacgg agtcattctg ctctgtctga atgagggaga gctgaaggac	300
ttggtgccac cacaaaaaca gctttgcctc ttcctccacg gagcttgggt acacctgttc	360
cagccacttg ctttaagatga gcagcacttt catttcattc cttaaagtct gttcgctgtt	420
taaacactga agcaagtaga cgtaaagagt caagtaactg cccaaggtga ggcactcctg	480
caggaactct tccatggatga gctcgggaac ctgaagggat ccagaatggg tccccatcct	540
gaatctgatg gagagggcnt	560

<210> 10118

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10118

gagacggagt ctgctctgt caccagggt gggatgcagt ggcgcaatct cggctcaccg	60
caagctccac ctccgggtt ctgccattc tcctgcctca gcctcctgag tagctgggac	120
tacaggctcc tgccaccacg cccggctaatt tttttgtgtt tttagtagag atagggtttc	180
accatgttag ccaggatggt ctcaatctcc tgacctcgtg atcggccac ctcggcctcc	240
caaagtgctg ggattacagg cgtgagccac cgtgcacggc caattatatt atttttcaaa	300
cctaagagga gctcccaata tgaaagtatt gtcagcaagt tttctcataa aatgagaaat	360
cttgtaaatt aaacaaatca caaattggcc tgctttgcac atccagagtt tcatgacctc	420
tagctaataa agatgccccat gtttgctcag gtcacatgt gttgggctcc tggctgggca	480
tttcangcac atccatgcta tcatcatccc tattcttcaa gtgaaggata cttggggctc	540
anaanagggt cggngacttg gctaangnc	569

<210> 10119

<211> 437

<212> DNA

<213> Homo sapiens

<400> 10119

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gaaattttaa agctgggtgt ccagggcaga catcacatgt tggcaggttc tgtgatgccc 60
cctgagccat aaaaccagca aattttttat tagtgatttt caaaagggga gggagtgtcc 120
aaatagggtta tgggtcacag agatcccatg cttcacaagg taataagatt tcacagggtta 180
aatggaggca gggcgagatc acaggaccac aggactgggg tgaaattaaa attgctaatt 240
aagtttcggg catgcattgn cattgataac atcttatcag gagacagggt ttgagagcan 300
acaactggtc tgacaaaaat ttattaggca ggaatttcct cgtcctaata agcctggggag 360
cactctgaga aactggggct tatttcatcc ccacagntgn gaccataaaa gacagntgcc 420
ctgaancanc cntttna 437

```

<210> 10120

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10120

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cattttactg catttngctt tattgcgctc tgcanatagt acatttttta caaagngatt 60
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tcatgtctct gcgtcacatt ctggtaattc ttacaatatt tcaaactttt tcattatcat 180
catatctggt atgatgatct gatcagngat ctttgacatt actattgtaa tagtttttga 240
caccacaaac catgcccata taagacagca aacttaatta ataaatgttg tacttgttct 300
aaccgctcca tcaacaggcc atttccctgn ctctctccct ctcttcagge ctccattcc 360
ctaagacaca atattgaaat taggccaatt aataaccttt tgatagcctc taagtgttca 420
actgaaagag ttacaggatc tcacacttta aagcaaaagc tagaaacgat taaagctttg 480
agaaaaaggc atgccaaaaa tggagatagg ccaaaagngg agctcttttg accaattagc 540
caagtgggaa aagg 554

```

<210> 10121

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10121

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gaggactgca aggcacaact gtgcagacag gcagagaagc ctcagcacct gtgggaaagg   60
aacgaatcca tttctgtctg ctcatttccc acccatgagt gtggacagcc ttcctgtccc  120
tggagtgtcc aggcctgcct ggactgagtc tgtccctctc cctccccttg caaaggctga  180
gagtgttctg gatgtggctc tgaaagaatg ccaaggtcta tcaggtgggt ccaccacagc  240
cctagcccag gatgtccctc acctgtgtcc attccccag caaagtcctc atcataggag  300
tcatcagtgg agtcctcgcc atccaccgaa gaccatgctc ggagcttggc ttccgcgatg  360
gcaaactgct cagccactcc tgtcgcaggg acagaatgca taagcagaga aggtgagtta  420
agtctagggc tcagcttgaa gacaggagag aggagaaaca gggatatggga agactccaac  480
ccccatgtca nacccgagga gataaagaaa gcaccctggc cgggtgtggtg gcttaagcct  540
ggaancccag cactttingga ag                                         562
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<210> 10122

<211> 386

<212> DNA

<213> Homo sapiens

<400> 10122

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atcattttat gaactttaac catagcaaat gggtttttac ggnagtcata aaatcaacat   60
taccacatat acaaaggaca agaccccagt ttggcataca aaaataccat atattaaaat  120
tgggttcatt ggaaaactca ggactggcta aaacaccatc tataacagag agagcaagca  180
agaatgcttt taagacattc agatttataa acagcagctt gatatcccct ttacgaagtc  240
aatatttggc aacatttggga caatatattc tacacagccc agcagctcat ttatctgnag  300
ggctatttgg cccttaaaaa aaaaaaaaaa aaaaaaaaaa aagcncctaa aataaataat  360
```

ccnnataatt gnaaatgaaa cncatn

386

<210> 10123

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10123

gggatggagt cttgctgttg cccaggctgg agtgcagtgg cacaatctcc gcttactgca 60
 acctccacct cccagggttca agcagttctc ctgcctcaga ctcccaagta cctgggatta 120
 caggtgtgtg ccaccacact cagctaattg tttttttatt tttttttgag atggagtgtc 180
 gctctcttgc ccaggctgga gtgcagtggc gccatctcgg ctgactgcaa gctctgcctc 240
 ctgggttcat gccattctcc tgcctcagcc tcctgagtag ctgggactac aggtgcccgc 300
 cgccatgccc ggcttttttt attttttttt tttttttttt ttagttagtg gtaganacgg 360
 ggtttcaccg tgtagcccg gatggtcttg atctctgac ctcatgacct catgacctgt 420
 ccgcctcggc ctcccaaagt gctaggatta caggcatgag ccactgtgcc cggcttgat 480
 tggatttttag caganacggg gtttactat gttggccaag ctggctcaaa ctggtgactc 540
 aaagaa 546

<210> 10124

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10124

gtaaatacaa actacaccta gaaaactgct ttctgaaaca ttccttagtc tgtggctcac 60
 ctaataatcc tcaactcaacc ttatcaggag gtaaggattc tgtctgaact caggatccat 120
 ttggatcggg ggcctaccta tgggcaatga gaggaatcat attaactgtc actgtccatc 180
 ctctgagtct ttgtagtttg tagtaaaata catactgtcc catataaaaa atgagaattg 240

tgttacccta aatgtcagat aatttgggtgt ttcccagctc tccagctcta aagaatctct 300
 gctgggtatc cctttatgtc tggaaggaga ctgtcagctt ctggtatctg agacctgtgt 360
 gccctataac atctagttat ggctatcggt cttactagt ttagggatac ctttctgtag 420
 gaattaagag taaacacaga tcttcagagg caagagtttt agaacttatt gaagactttt 480
 ggcatatgga aacttcattc aacaaagagt gccccttaaa aaaaatctct actggcattg 540
 ggtatgggga tctgcc 556

<210> 10125

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10125

gagactgagt ctactctgt caccagggt ggagtgcagt agtgcaatct tggtttacag 60
 aaacttccgc ctctgagtt caagcaattt tctgtcgca gcctcctgag tagttgggat 120
 tacaggcacc tgccaccatg cccggctaatt ttttgtattt ttagganaga tagggtttcg 180
 ccatgttggc caggctggtc ttgaattcct gacctcaggt gatccactca cctcggcctc 240
 ccaaagtgtc gggattatag gtgtgagcca ccttgtccgg cccaaactga cattttatag 300
 ggatttttca tccttaaagn gatctactca gctcatttct tccaaatctg nattttacag 360
 cacactttaa actggtgccg cagagttttt gagtgggtgat ggcagctgcc ctctatgtct 420
 gtgggtgtgc ggccctcat gctggggaaa gaggggacgt gaccctaccc ttacagcagg 480
 ctggcctcct tctntncca aactggcggc cctgntctgg gctaactagc ccaatcctag 540
 cctn 544

<210> 10126

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10126

gagatggagt ttcactcttg ttgccaggc tggagtgcaa tggcacgatt tcggctcact 60
gcaacctctg cctccccggt tcaagcgatt ctctgcctc agcctcccga gtagctggaa 120
ttacaggcgt ccaccacat gccagctaa ttttttgtat ttctagtaga gatgggggtc 180
caccatattg gccaggctgg tctcaaactc ctgacctcag gtgatccact cgccttggcc 240
tcccaaagtg ctgggattac aggcgtgagc caccgcccct ggccaaggcc ctactttcta 300
aaagaggaaa actgagacca aggaagggtg atgagcacat ctgtttctcc actcaaggcc 360
agcggtgaga aacggcagag ccgggcaccg gtaccttggc ttcaggcaag tcacccagca 420
cctctgggct tcatactccg tttggaaaat gcggatgaca agaacaatccc ccatccagcg 480
gtcccactct ggngaattta ttctaaaagg gaaaatccaa caggntttgg tctggggatg 540
agtcacgan gcttnatta 559

<210> 10127

<211> 572

<212> DNA

<213> Homo sapiens

<400> 10127

catgaagacc agtttatttt acatgcttgc tttcacattc tttactggga atttaaggcc 60
ttttttcagc ctttaacttgt ataccaacct caaggatttt gtttgataca gaaaaggata 120
gggctgggccc cttctgcaa ggactgataa cctgcctgcc aaaaggaaga gggaatgaaa 180
gccttttgtc cttctaggcc ctttacagta cctcaaaatc taaaggcctt aaaggggaaa 240
aaaaccgtat ctgttttttc tccttatctc ctacccttct ctttaagcat attgaagatg 300
gacttttttc caaatgttta tttgtaggaa gaggtgatga gcgcaggcca gcagctgaga 360
acttacagct ttgatgcacc aggaactgta ttcaagctga gggcaaaagc ctctaggga 420
gggagccagg tccaccaagg ccagagacag acagggcgag actgtggaag gccagggaga 480
tgctgcctgg taaatgctca gctggcctac tgggcaagtc ctctgggggt tctagagctg 540
atnggaanaa ggagtcattt tgatagtccc gn 572

<210> 10128

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10128

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gagagtctcg ctctgttgcc caggctggag tgcagtggcg cgatcatggc tcaactgcaac   60
ctccgacccc ggcgttcaag caattctcct gcctcagcct ccctagtagt tgggattaca  120
ggcatgcgct accaagccca gctaattttt gtgttattag tagagagggt gtttcaccat  180
gttggccagg ttggtctcga attcctgacc tcaagtgate cgctcgctcg cctctctacc  240
ttccaaaatt ctggaattac aggtgtgagc caccacgccc ggccagggat gtggttttat  300
aaactatgaa ctaactctcc atgctatgtt gttcttgtta attcatttct ctcatagata  360
attaaaaaca aaaaacaaga aaacaaaatc caacaagcag gcataagatt atatgggagc  420
tttattaact aaatgcccta ggttatattc aaagcagaat caccacgac tcctcaggag  480
actgcancat ggggtaaaat tgggtgnact ttgaggacat tttggatata ctaatgaaac  540
atggaccttc ctggggttct taangc                                     566

```

<210> 10129

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10129

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ctgagacaga gtcttgctct gttgcccagg ctggagtgca gtggcacgat ctcggctcac   60
tgcaacctct gcctcccggg ttttaagtga tctcctgcct cagcctgtgg agtagttggg  120
attacaggcg cataccacca tgcccagcta atttttgaat ttttagtaga gatgggggtt  180
catcatgtta gccaggctgg tctcgaactc ctgacctcat gattcacctg cttcggcctc  240
ccaaagtgct gggattacag gtgtgggcca ccacaccggg ccaaggaaaa cttttaaaaa  300
ataagtttag tgtcacctaa gtctacagtg gttataaagt ccacagtagt ggacagtaat  360

```

gtcacaggcc ttcacattca ctcaccatcc actcatttac tcacccagag caaattctag 420
 tcctgtatta caagctccac tcatgggaac catttttaaa atcttttata ccatattttt 480
 cctgngccat ttctatggtt agatactgaa tccatcggtt tcaattgcct gtagtantca 540
 aggacaatca catgcttgac anggttgg 568

<210> 10130

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10130

ggatcataag tatcttcaag accaaaataa ttttctactc ctgagcatgc tcatttggtca 60
 aaggaaggaa ggaatcataa tagcgtaaat aaggctagcg tcttttcana agttggttct 120
 ttgngccagt cttggngcta gacacaccga taggaanaaa actccttcac atccccagga 180
 caccaacatg ggatacgttt gatcatcatt ctttaatttg anaaggagaa ataggctcag 240
 tgagatgaaa tagccactcc agtggcaagg ctgggactgg aagccgggct tgtcctgatt 300
 ccaaattccag tttctttcca ctgccacgga gacggagaga agggacagng gccccanatg 360
 gggatggggg gactggatgt gggcaggcct gcgggggaag agtgccctct gttgagcatc 420
 cgaatgatgg cnccagaaaa gaaaactggg canaatccca gttattaaaa tcccctgagg 480
 ggaacaggtc accccgaccc ctnaggcana agangggggg gaanacaagg cccatanatg 540
 aaggccctgg 550

<210> 10131

<211> 448

<212> DNA

<213> Homo sapiens

<400> 10131

ggtttttttt tttttaaaaa ttacttatt tccattttta tgaanaatta aaggatncaa 60

tgggttaaag acncatttaa aatactagca agggattaga cagacgaatc aaatitttgn 120
 gatatcccaa ataattacaa gagacttga aaatgtagn naattcaggn tttctttcca 180
 gtttaaaaat ttctatccat tgcctctatc ttgggggnca ctgccaccaa taaacncagt 240
 ntacagctta naaacctaata tactatcttc aactaggaaa aggnaaacca acatcatttc 300
 tttaaaatgn gaaataaaga atgngatcgn acttaatttt ggctcatggg cccacaatac 360
 tntgaaatgn catgccnaaa tgtaaaagtt caaaaggga cttatcatt tgctataatt 420
 gnccaaaaaa tttagctctg nacnctgg 448

<210> 10132

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10132

acagtacatg aatgttttat tcttcataaa gtgcctaaaa catgaagaag aagctcttta 60
 taaagagcct taactaggaa gacaaacagc aaagcagaac catgcctgca ccctgccccaa 120
 cccacctgca actttcctcc aagtgtggct cggagaagaa acatcaacaa ggaccctggg 180
 cttcgattca aaaactcctc tgaagccatc catgccctgg gcattaggga ggcccacaaa 240
 ggtcagggcc agggctggga gtgaataaag cccagaggaa tccccagtag ggggggtgac 300
 tccccctctc tcagaaaaga tacttacttc tctaataccc aatgaccccc aaaagcatga 360
 ctgaaaccct ggggaacagt ggatactttt ctcagatttg atgagtggag tttaaggtag 420
 gtaaccgtta caggggcttt cctccatgtg tggcgctcct ctgctccatc ctggcagcag 480
 acagacatca cccaganggc acgtgtctgc ctgangcctt tcaaaagcaa gcccacaagg 540
 ccctttcttg aaaaaatggn ggncccaaa 569

<210> 10133

<211> 363

<212> DNA

<213> Homo sapiens

<400> 10133

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cccattgggt gacagcggtt attgaaagga aatcttgctt tatccaggaa ttcactcaca 60
tggaggtagc tgcaaggaga atgtctcttt ctcatgacaa ccaaagcgac caaaccatac 120
cctaaagcag agacncaatg gaataagtca acgggcattg tagaacgacg ctcagaagca 180
ggaaaaacca taaaagatac aggatgattg tctcttcagt attgcatttg gccatgtatg 240
tgtttttaca taaaatatat gttttctttt taagctagct aaagaaaata ctcttgatcg 300
gggttagttc ttaaagcaaa aaacngaana aaangttgga tananaataa aantaaagaa 360
ccn 363

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<210> 10134

<211> 433

<212> DNA

<213> Homo sapiens

<400> 10134

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gcctcttttg ttaaacagca acagagctct gccactttgg ccaaccaccc tcctttgtcc 60
tcttcctttt ccctcctgcc aagtgtccta ttctcaaaag gtctaaatca ctgccttcca 120
gcttgggtggg caacctgctg ggggccccaa gtgaggtggg gaggggctcc ctagctatit 180
cccagtgacc tctatcacat catcgtcttt atcctcatca tcattggagc tgaacccaac 240
ctcggcaacc tcatgagagt caaatggagg cacctgggac cgtaggaggc caccagctgg 300
gtagcctgca tgtgggggaca tgtacctgga tagatagaac atgccccnca aaaggttggt 360
ggncaaaaca gggaaaggaa aaggcncaaa catcctgggt tngancagaa ttggctggna 420
aantggaagt gaa 433

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<210> 10135

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10135

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ctttgtcgtt gttttattta aaatgttatt gtctctgatt agaaaataca gtcattgaggg 60
ctaaaaactg aaatgatgtg aaaaggcatc cattaagcag tgttgcccca ccaccctctc 120
catcagtctt gtctcatggg gatggggaaa atgaagacag aacgctttgc cttgctttgc 180
aatccctcct ttgaaggcct tctgtcccag gaagccaatg ttcatttgat gtggaagagg 240
gacctgtgtt taaccagaag ctgtcctccc tcatcccttt cccatggctt acacgcagaa 300
gggagaggag atgaccagag gagaaatcag ggggaagaaa aggcaacagg ggaggcaaag 360
gggaaaggag aggaatgctt aaaatatacn gngaaatttg agtaggatct ctactcaaag 420
acttctntgg gaagtgtcca naattgacca cccaggtgct gacggtngaa agaaccnnga 480
cccaaaacc tggactagtt gcnttaactc cattagccct gagttnctt tgnaaaanga 540
aactgggggg c 551

```

<210> 10136

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10136

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aacgtgaata atgctgttat tagagttgaa gagaagccct tagaaatggg acaaacattg 60
taattctctt agagaactgt aacttaaaca gaaatacact taatagaaga ggaaagaaaa 120
tggttcatgt gacacaaagg tcccatgtgt tgacttcttt ggtaagatca aataagtatt 180
taagcctagc aatagggtca gtccagttag tatttctcct cacaaatggt gaatatcaac 240
tccaggatgg ctggagtttt ctcatggttt ggttcacgc catctgcatg tctttacaag 300
tgataaaaac cggaattttc cagctgctac tagtcacagg gggccccaa tatgggttgt 360
ttaattatga tgacgggtcc tgtcaattgc atccagtaaa attggtcaca tagagaactc 420
atctaaaact gagggtttgn tgtggttttg aaaggccatt ggaatccaga tttgcaaagc 480
atgtcaaggt atggcaaaac atatgccacc catnttaaaa actttcctta taatgnanga 540
ctt 543

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<210> 10137

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10137

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ccttttaatg ataatgattt aacttagaaa tctgttgtga aacttttgtc tagttttgca 60
attctcagat attccagtgc aaaaatagat cccgttacag acagcgtaaa gtgcttgga 120
tgagggccaa tgatgaacaa agagcacaaa aacagcttca tcttagggta taagaaggga 180
taatagcata cctaaatcct tatggaaata gaaacattct aagggggatg caacaatttt 240
gaaaagaatt agagcaatat ttctacagta ttacattatt actagtagat aataacaagg 300
gtacaaatta atgtctcaat atcaaagtgg gttcagtatt acatgacaca tggctctttg 360
gaaaatattt tacctgatat atacaaccac aagaagaaaa cacagataaa tggcttttagt 420
caatgattac tatacagtga atgaatgatg tgcaacattt aatagtcaca aagcatttgc 480
tttcagtaca gataatgaaa tcagtagtgt gagggttggt tggtttttaa caatgaattg 540
ngctggggca tttt
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<210> 10138

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10138

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atgttacagc aagggtgtaa cactccactt gagaaagaag tgatacttct tcccttccaa 120
gagttcccc cccccccgc ccctaccccc ccaagaggtc tggctcttgac agcaccctgc 180
ccacacagag tggctggggt ctctgcacgt gccaggcagg gtgagggccg cctgcccgt 240
ggcctctccc cttgggttaa tagccaaggg gagaatgcaa accccagccc aaatggagag 300
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acatttacat acgtttttata taatatacaa agaaaccagc atcccaggca acatgatttc 360
 cactcccaat gctctcccag actgatgggt ttgtggggga aacaacanaa agaaaagtac 420
 actgctgagg tctcagcatt taaaaaaaaa nnnaaaaaaaa atctcccctc atttgagcaa 480
 acacctgatt tcgattttga aaagngaaat ttgnaacaag tcacaccna agaggagaag 540
 actgtgcnt 549

<210> 10139

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10139

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 aaataattgc ctactttttt gaaacaaact tggtttttac cacagcagtt tcattttctt 180
 tttccaaaag tcttaacaca attttgtaaa gtaaatttct aacgccagag agattaagtt 240
 caatgaccat agtatatgct actgnnttaa agcaaggtta acacacacac acacacacac 300
 acacacacac aaaatgggac tgaacaaaag tcactactta atactttcta aattgcctct 360
 tttggaggta cgggtgaaaga aaaacattct agatgtgtct gaaagaaaca aggtcacaca 420
 cttactaaaa ttcccctttg ctttaagngt agttgaggga agttcaacta atcttaaccc 480
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<210> 10140

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10140

acaaaggact gaagtcaaac cgccaaaaga aaaatgtatt gtaacaacaa atagggtaca 60

actttaagga atgtactttt aaaattacta tgagttttatc aataataacc tttcatgtta 120
 agtcttccaa tttttgtaca taaaaatgat tttcatcaaa ccactgaaac tatccattgt 180
 ggatgtaaat aaaataacca agttcaatgt aagaaagcag cataaaacaa agtaaaactt 240
 gtgatttgca aatcagcctg atgtaagttt gttgtttgtt ttgttttttt ttgcctttgt 300
 agttgcagaa ggtgagctct gttttagaag gagtcatttc attccccaat tgaattttta 360
 ctcathtagc ctaaaatcac ttcaaaagtt taaaatgagg gtagaggaaa taaaagaggaa 420
 aaaaagtaaa cntataggta agtttatcag atcactaaat gctanccttn gaatatccaa 480
 cccagccaa tgcntaaggt ctttatgcc aacctggattt ggnntttnta aggggaa 537

<210> 10141

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10141

ctcagagaat tatttaataa tagaattacc atacttttgg cgcaaatgtg tccaacacca 60
 atgtgacaag tacatatatc agaatcactc tttcctcaga gaatcacacc ttcccttggc 120
 tctgcctgtg gatccaaatc aagcctgggt gtggctgaca ataccagggc acggtttgct 180
 tcccggccct ccattctctac tgtttggcta cagcttgagt tcactaggca tcggctcccc 240
 tctcaggcca gccagcaagt tgtagctgc caacaaggac atggtgttgc gggttctgng 300
 ggtggcactg ccaatgtggg gcagaatcac acagttcttc agggatcatga nanggggtgg 360
 ttgtaagcag tggttctggg ctgcncacat ccagtcacgc agctgcaatc ttaccactgg 420
 ccaagggctg gtacaggtcg nctgggtta cgaacgtcgc ccctgggaat gacagtgggt 480
 gacatgggta ccccgaaaa atccttcgnc aagccanctt ttgggggna acaactaccg 540
 at 542

<210> 10142

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10142

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gtgtgttaag tcacttgttt atttctcaag atgtgcacac tcaagtatga agctggccgg 60
gacaactcat ggctcctagg tatgtacagg ccctttgatg gcttgggtta cagacaacct 120
catagctggg gcaccacaca cacgagataa aacaggaagc ctaaaaaccc caagccacac 180
caagaaaaat gagagagggg agggcggggg aacaatgcag catcccgcgg aggggaactta 240
atgcacaagg agggagaaca gaggggtggaa ggcaagccaa ctttcncttc gcccnegcaa 300
ctgctgnngg ggtgggcaag ggactgagtt caacaagggc ctttaggaaa ctttttggaa 360
tcgggtgaan tctgatnaaa aaaccgggcc acaatcgagg gaacttttgn aaaggcttcc 420
acttgcttg aaactcctcc tggaaggttt tnagggttt tgcggcagc ttcgtaaag 480
ggcatgtcgt tgnngcggat gtcctcancg agagaccgga ccagcctccc ttttgggtta 540
ctggnagg 548
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<210> 10143

<211> 311

<212> DNA

<213> Homo sapiens

<400> 10143

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agntagattc tacctctgnc acccaggcgg gaggcagng gcatgatctc ggctcactgg 60
actccagctt aggcaacaga gccagactgn gtctcaaaaa caggaaagaa aacnaaagaa 120
aatttggact attgccaatt acaaatattt ttagagaaga attcaaaata gtaactgngg 180
atgatggaaa caatagttat gatagaagtc tgatgaaact tccagttca caaggaaatt 240
taattactta cgtgcagcat ttttaagacag taatcagaat cntgantggg ngnatnatnt 300
tagggcccc n 311
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<210> 10144

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10144

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caggataata accaaagggt ttattaactt ggaaaataaa aattcaataa aacattcaga 60
ttgggaagat aaaaatgaat aattcttcct gaaagcagat cagaaacata gacgaaaaat 120
agaaaagata aaaaatatta gagcatcagc ctgggtgtag gggagggtcc aacattgaaa 180
taataggtgg tccagaaaga aagaatgtaa ataatcaca gaaaatttaa gaaatttccc 240
atgaaggccc agcacaaggt ttaacacccg ggatacaaca ccatcatgac agttcagaac 300
accaagaata aagagatctt aaatgtttcc aggaagggtg gataaaaaaa cctaagtcac 360
atataaaggt acnggaatca gaatggcatc agaaatctca accagcaccg cttgggaagg 420
gctaggggan gggattatct tccacctggc attctatgct cagccccatt ttggtnggg 480
ccnaaatncg gactttttta gtcatgccaa aatctcaaaa tatttacaac ctttttacnt 540
tccaggtctt ttcn 554
```

<210> 10145

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10145

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gagagagaga gtctcactct gtcaccaga ctggagtgcg gtggcacgaa cactgctcac 60
tgcagccctg acctcctggg ctcaagccat ctcccttct cagcctccag agtagctgag 120
atcacagtcg catgccacca cacatggcta aatttttttt tgggggcggg ggggtagaga 180
cggggatctc accatgttgc ccaggcaggt gaagttgtat tttataatta cctaaaagtt 240
atagtttatt tggtttgatg gggtagctta tttattttta atcttcaatg tagtagaatg 300
acttttttg gtgtttttgt cagcattata atcttcagtg ttcttaatga acactttcat 360
taagtttaat aaatgccttt agcaacaata atatatgcc acaagaatca tgacaaattt 420
ctacccaact cgttgggtaca tttctgattc tggttcaatg aaaatgtctc tcttaaaaat 480
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gncactttg caaaagcttg gcataattcc ttccaagcc gtgtttacac agnantgaac 540
cgaaagagtn t 551

<210> 10146

<211> 396

<212> DNA

<213> Homo sapiens

<400> 10146

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gctctgcctc ctggattcac gccattctcc tgcctcagcc tcccgagtag ctgggactac 120
aggcgccac caccacgccc agctagtttt ttgtatttt ttagtagaga cggggtttca 180
ccgtgtcagc caggatggtc ttgatctcct gacctcgtga tccgccacc tcagcctccc 240
aaagtgtgg gattacaggc gtgagccact gtgtccggcc aggcctctct tcttaattca 300
acagtcagtt atctcagagg gtttctctct agtgtctctt cctgtttgaa aggaagtggg 360
acaactgaat gcttctctca tntttnttn tnnnn 396

<210> 10147

<211> 515

<212> DNA

<213> Homo sapiens

<400> 10147

ctgttttttg ttttttgttt ttttttccca aagcggctgc agttaggtct tgaaaaagct 60
taaggattta aaactagaaa aacgcaccaa aagttgtgcg taaaaaagtt gctccccaat 120
gagaagtctt ctaccgtcat ggagcttctg tttccacata ctgtccaaga ccaccacagg 180
gtgcaccgta ccattgggag gtgcttccat attccgcaac aaatgaaact tccatgatga 240
agatccggaa gaaaagatgt agtgatggaa aaggagccac atattccaac catttaaata 300
actttaattt acatactnac tnacacaggt accagggtt tgaaaataga ttggtcagtc 360

ctaaaaagca nctttgggtct ggcttcnctt ttctggccct tccttttttag ccaaggcagg 420
ccttccactt tttcantact gggtaagta aggttgngtt aanaanttnc ccaacgcttt 480
aatctttttt ggccntggat ttttcaggna aaatt 515

<210> 10148

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10148

cttttttttt tttgaaacag cgtctcactc tgtcgcccag actgctggag tgcagtggcg 60
cgatctcgac tcactggcaa cctccacctc ccaggctcaa gcaattctcc tgcctcagcc 120
tcccagtag ctgggattac aggcgcatgc cactaccgcc cggctaattt ttttagtaga 180
gacgggggtt cgctatgttg gccaggctcc tgacctcaaa tgatctaccc accttggcct 240
cccaaagtgc tgggattata ggcatgagcc accgtacctt gccctcaatg caactttcta 300
aaaaatgcct actacaaatc tcttaactaa tgactctctt aggtctgtgc aatacagaat 360
ttcttttttt ttcttttttt tttanagaca gggctctgct ctgtcaccca ggctggagtg 420
caatggcaca atcacagctn actggagcct caaactcctg ggctnaggca atcttccacc 480
ttagcctcca agtagttggg actaccaagn ggcaccaaca tcctgggcaa tttnaaaatt 540
ttgnanaaac cggg 554

<210> 10149

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10149

gcctgggtccc cacatgtttt gggttttgtg acatattgct gggcccaata cctagaaaat 60
ggaaggctcc gcctggggcc tgtccacagt ggatctgggtg acatatctct gcattaatca 120

cctaagagat gtggctgtct tcttctccct gaaccctgct tacagggaag attgtgacat 180
 attgctggca tcagcaaaca gacgatgtgt ctctcgtaat tgggccttgc ccacagaaag 240
 cattttgaca tattgctggg cttattactg aagggtgaagg gtgactcttg cagcctgcac 300
 cctgcanggg gttggtaacg tattcctggc tgagtaccca ggtgatgtga ctcttctgcc 360
 tggcccttgt gtcaggggaa agaattgtga catattcctg gcccagaaat caagggtgaag 420
 gtgacttttc ctgttngctc cctaccacaca ggtaaaaact gnggacatat atcttgggtcc 480
 actaacagtg caataacgac tntaatgcc acataagcca ntngaaagga actggcagtt 540
 taactgggat ttgaaaaaan ggta 564

<210> 10150

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10150

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 aacctccgcc tcccgtgttc aaacgattct cctgccacag cctcccgagt agctggaatt 120
 acaggcatgc gccaccacgc ccggtacttt ttgtatttt tagtagagat ggggtttcac 180
 ctgttggcca ggctggtctc caactcctga cctcaagtga tccacccgcc tcaccctccc 240
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 gagacagcgg gagtatctcc caagctggag tacaatggcg tgatcttggc tcaactgcaac 360
 ctccacctcc cgggttcaag caagtcttat gcgtcagcct cctgagtagc tgggattata 420
 ggcatgcgtg accatgcctg gctaactttt ggatttttta gtanagatgg ggtttcacca 480
 ttttgaccaa actggctcga actcngact caagnactt ctgccttgn ctccaattg 540
 gtgggataca g 551

<210> 10151

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10151

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gagatggagt ctagctctgt tgtccaggct ggagtgcagt gacgcgatct cggctcactg   60
caacctccac ctcccagggt caagcaattc tcttgactca ccctcccga cagttggtat  120
tacagggtgcc cgccaccacg cccggctaac gtttgtatit ttagtagaga cgggggtttca  180
ccgtgttggc cagcctggtc tccaactcct gatctcaagt gttccacctg cctcggcctc  240
ccgaagtgtt gggattacag gcatgagcta ctgcacctgg tctaaagggt catttttgta  300
atgtcactat tatggctctg acaataggga ccagagggtca tttcatttta ttattggtta  360
tctacatttc tctctcagtg tgaaacttgc tgatatttga agaaactggg atgtgaggca  420
gggaccaatc atggagggtg gtctgagacg gaggggggtt ctgggaggca ggactgatgc  480
tggtgcta at gctggggaaa gtcccaggca ggctancang gtggcaccaa gcttcgatgt  540
gaaccgccgn antntgcn                                         558

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<210> 10152

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10152

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aaacagagtc tcaactactc tgtcgcccag gctggagtgc agtggcatga tctcggtca   60
cagcaacctc cacctcccag gtccaagcaa ttctctgcc tcctactcct cccatgtagc  120
tggtgattaca ggtgtgtacc accatgcctg gctaactttt gtatttttag taaagacggg  180
gtttcaccat gtcagccagg ctagtcttgc actcctggcc tcaagggtat tgcctacctt  240
ggcctcccaa agtgctggga ttacagacat gagccaccgc acccagcctg gttgggagaa  300
tgttctattg attccctagg atgctaggaa gtactcagca aatactaaat gtagcaattc  360
tcaggggtta ggaggagttc aagataaatg agtattgtaa acacagtagt ccaggttaagt  420
taagcccca tgccctcttc aggaggcctg gtctctggac acttacagaa gaaaagtcca  480
ccccctgat acaggccttc catagcttac ttctcaacag actgnagctt caacctgaaa  540

```

caccnttttn catnttacta a

561

<210> 10153

<211> 571

<212> DNA

<213> Homo sapiens

<400> 10153

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gttttttttt tttttttttt tcccagttag aaaacgtttt atggacacgg aacgctccac 60
tgtaacgggc aggcagaaca cactcctttc ccaggctcat caattaaaca gaaaacaggg 120
gagctctcct caccacagcc tggccctgtg ctccccaatg gcccctgcga ggcccctacc 180
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gtgtctacac tggcagaaat aagggtgga gccacacgtg atgctcggac acaaacggca 360
cgcagctctg cagcctggcc acacaccctt cgcgtatgac tccactcctc agggttcag 420
gggctgtgta cagagactct ctctgctgac acgatggcca cacgcccttc gngtatgact 480
tcacttcctc agggttacgg gcttgtgtac agagactntt tntgntgacc catgggcata 540
tggnccttgc gtatgactcc attcttangg t 571
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<210> 10154

<211> 533

<212> DNA

<213> Homo sapiens

<400> 10154

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gaagtgggtgc aaagtacatt tattttttaca atgaaagctc atctatgaat ctgataaagg 60
ccttccttca actggagaca atttgggatg ttgcaaaaca aggtttggga agcccttcta 120
tggatcggtt ttgtgtccaa gtctgtccct gccaaaagcc atcaaaagtc tccatcacc 180
ctgggctcca gtctgtacc cccagacttg gcagctggga tctctccttc ctggttcata 240
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gttctcatat ccacccctca gcgatggagt tagagttcca ggcccacgtg gtgaacgaga 300
 ttgtgagtgt caagagggaa tacgtagttt atgatctgaa gacccaagtc ccaccccagc 360
 aagccggtgc cctgcttcca ggtgacggtg agtcaagtcg cgaggaggcc gacagagggc 420
 tgctggangc cggttggaaat naaggatgca cggncanaag ccangcccca tgcccccgan 480
 gcccaacttc tttccccccg nccggaaagg cctgactttt ccccttcanc ttg 533

<210> 10155

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10155

acagatagga tcttgctgtt gcctaggctg gaggcagtg gcacaatcat agctcactgc 60
 agcttcgaac tcctgggctc aagcaatcct cctgcctcag cctcctgagt agctgagact 120
 acaggcacgt gtcaccaagc ccagctaagt tttttatitt ttgtagagat gaggtctcac 180
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 tgtgctttgg atagaatcat tgctttttct agcttgnngc cttttttttt ttaagtatct 360
 gnataaggca gtttgaaaac aagttcaagc tggacactct tgagtccagt cctcatgttt 420
 tcagcccact gttgcaccca attcgtgtgg gcaagcctgg ggcccatggn atgagggatc 480
 tncagtaag gaagctgnta tttggccaaa accgcanaaa cttgaaactt aangggatcc 540
 aaataaatgg cngttgngg 559

<210> 10156

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10156

ccaagactat tattttttatt tccggacaaa aacatctgct tcacacagtg cacggcatca 60
aatgaagagg aaagaacttg tatcccaaag cctggctttc tgtatcatcc acaaattaag 120
acagcatctg ctgagcccat gctgagcctg tcacagtcaa caactgggaa accggggcct 180
ctactgaacc aggggacaag tagccgaagc acttaaacag cttgatactt gtttttttgt 240
acatttgttt atttaaagca caggaaatga ataaaatgcc acctaaaaag tatctgcaat 300
gaataaatta tttccagtga agcactgcag atccacacac accagtctgc taacctttac 360
caaggccatg tccgggtggc ttgngcttgt cccagttgac tcttccttga gacctttccc 420
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atggaaaacc acgtggatga ncagtgggct ggcattgcag aaggtttaac aaanggactt 540
tactggtttc aggggcctg a 561

<210> 10157

<211> 502

<212> DNA

<213> Homo sapiens

<400> 10157

agatggagtc ttgttctgtt gcccaggctg gaatgcagtg tcactatattt ggttcactgc 60
aacctctgcc tcctgggttc aagcgattct cctgcgtcag cctcccgagt agctgggatt 120
acagatgcac aacaccacac cgggctaatt ttttgtatatt ttagtagaga cggggtttca 180
ctatgttggc cagactggtc tcgaactcct gacctcgtga tccaccctcc ttggcctccc 240
aaagtgctgg gattacaggc gtgagccacc gcgcccggcg gccctgacta tttttaatga 300
gccccgcgc aacaggctgg tgtgaaatgt gtgttgaggg atgctttgng aagaataagg 360
natnacagaa agacagtgca ctgatggtgc aatgaaagca acacaggnc tcttaacctg 420
nccaagaaac ttatggnntt gggggaacaa tcaangnact taaataccct ttaagnggaa 480
tctcatgggt ttnacaggaa na 502

<210> 10158

<211> 575

<212> DNA

<213> Homo sapiens

<400> 10158

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aaagacagag tctcactctg ttgcccaggc tggagtgcag tggcatgata ttggctcact   60
gtaacctcca cgtcccaggt tcaagcaatt ctctacctc agacccccaa gtaactggga  120
ctacaggcta atttttgtat gtttagtgaa gactgtttcc ccatgttggc caggctggtc  180
tcgatctcct gatcacagt gatccacca cctcggcctc ccaaagtgtt gggattacaa  240
gtgtgagcca ccatgctcgg cccagagggc acgtttctaa gtcctgaatc tgcagtgtctg  300
gctacaggca accttccctg ccattgacaa gtgttatcaa tctgtttgac ttggctatat  360
gcataaccaa gggccctgac ttcccatctc caacaaggaa ccacttttct taatgcagtt  420
ctggagcaaa tccagatgtt tgtcaaagct tgactgcccg catgctcctt gacccatccc  480
ccaaanggtt tntagaacaa acaataagcc atggcaaggt tctggcacgg anccaagcct  540
tggaaaaact agtttggagg taaggcttgn ccang                                575

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<210> 10159

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10159

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ctcaatcacc gtttttaatt ggctttataa gctaaagtgc atagtaaaga caaaaaaagg   60
aaatgcatac ataggaaagg gacacttaga aaggacctga gatacctaaa tgtctgttct  120
aaggaacact ggaaggaggg aatgcagatg caggcagcag gcctgggtct ggcttctggc  180
ctgggttttg agcctgcana agctgctggc atgctagctc taccagggga acagctccaa  240
gagggagtgt tgggatgaag gatcacactt gggataggtg ctgctgttac caaatgtgat  300
tttagctcca ttcagggccg aggggtaacc agcagtgcc acaaacctgt cancaggtaa  360
agaaacttct accatcccaa agtgcaggtt acaggaaagg ggtcactcct taatgacgac  420
ctgggcctgc tgcataangc ccatttatg caacatgtgg gctgnccatc tttcccactt  480

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ttnagggcta tgnacttggg caaggtnaan tggncaac

518

<210> 10160

<211> 474

<212> DNA

<213> Homo sapiens

<400> 10160

caaatcacat atggcttctt tgaccccatc aaataacttt attcacacaa acgtccctta 60
attacaaag cctcagtcac tcatacacat taggggatcc acagtgttca aggaacttaa 120
atataatgta tcataccaac ccaagtaaac caagtacaaa aaatattcat ataaagtgtg 180
tcacacgtag gtcctagatt accagcttct gtgcaaaaaa aggaaatgaa gaaaaataga 240
tttattaact agtattggaa actaactttg tgcctggctt aaaacctccc tnacgctcgt 300
ctgtcccaca caaatgttta agaagtcact gcaatgtact ccccggtctt gatgaaaaga 360
agcccctggt acaaaagatt ccagtgtccc tgaagaggct cccttctctc tnggggctct 420
cctanaaaac cagngggacg gcctcctgct gatccgnnta tacctanggg gncc 474

<210> 10161

<211> 446

<212> DNA

<213> Homo sapiens

<400> 10161

ccctcaatac aacaagttgt cacaaatcgt cacagtgata cagacttatac agaaaccaat 60
gaaacaatac aaattaaata ctaataaaat aaatactaca gaagacagaa gaacacaggg 120
gaatggagtt ggggggcgct cagagatctg ggattttctc atttctctc gggacaggcc 180
aaggccatcc agggcccagg tttggtcttg gtcatgaaca aggaggccag tccaagggac 240
cccggcgcca cctcccacca cccccgggac ctcttgtcct cagacatgga gttcaacttt 300
ccacccccat cagcaaccac gataacaatg acgacgacag ggagatgaga actaattgta 360

accaaaaaaa caaaaacagt ccagtcgcta atgctggcat tgataaggcg gnttcttgtg 420
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<210> 10162

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10162

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cacagatgac aagagctcaa aggcctggtc acagtggctc ccgggaggcc agtacacacc 120
cactgtcctc agacagaaac acacaacaca agggtttagaa acagggtttc aaagacaacc 180
ctctgggccca ggaatgagga gtcataaaat acttcaatta gccattaatg ctttaaaaag 240
gcattttttt aaaaagtcct accacaaagg ctcaacttca agtactaatt taatgggttaa 300
gttgtaatat ttctttgaaa taatattcct atgggtccaga aaaaattcac catatttata 360
actgatttca tgagcaaaca ctttcaattg ntggatgtac ataagtcctt tttgatctaa 420
tgagaggaga gacctggctt ncaataagaa ttcactagaa atatatttcc gtgggactnt 480
ttaaacttat taagggcctt gcctccatgg ntttanntta gcttgctggc ctttggntna 540
aanggtatcc cttatgaaag gcgg 564

<210> 10163

<211> 373

<212> DNA

<213> Homo sapiens

<400> 10163

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atncaacagg gaaaaacatt tcctnttttc ttggagcttg cattcttggg gganagacaa 120
atgaataatt aangccaagg agnggggaaat atgagtaana aaaaaaaaaa aagagggggtt 180

gganaaggga aggcctcctg aggggacatt tcagccaana cctgaatgat ggancaagcc 240
 acacgggcct gagggcagca gcaggatgga caggaccaa ggtccgtgca aaggccctga 300
 ggctgaatgg ngtttgagga atgttgaaag gccngtgagg aggggaancc taanaggaat 360
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<210> 10164

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10164

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 ctgcctcagc ttcctcagta gctggaacta cagggtgtgca ccccccacacc cagctaattt 180
 ttgtattttt agtagagacg aggttttgcc atgttgGCCa ggctggctctt gaactcctga 240
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 gcgcccggcc ttngttact tttaatgagc caaaagacag taagaaggag caaagcaaaa 360
 cccaccgaag gctctgtggg cagctggccc tgaaagcaca tcctgnctct tgnTTTTacc 420
 aactatgtga gcctttgggc aaaataccta acagtctgaa gccttaagtt ccttattaga 480
 aaaagggaga agatgatctg gatatttctt aagggtaatg gttcttccat ntctgaagg 540
 agg 543

<210> 10165

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10165

ctctaattctt gtcttcatgc tttatttcat taagttgatc ttcaatctct gatatecttt 60

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 tgttttcagc ttcatacagg cggttatgtt cttctctaaa ctagttattc tagtttagcaa 180
 ttcctctaac cttttatcaa ggttattagc ttccttgcac tgggttagag catgcttggt 240
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 ctcattctcc atccagtttt ggtcccatc ctggcaagga gttgtaatcc tttggaagat 360
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 tggatttacc taccttttgt ctttgctggg ggtgacctta ggatgaagtt tttgcatggg 480
 ccgccttttt ggtgaggtga tgctactgct tttggtnata agttttcctt ctaacagtca 540
 gn 542

<210> 10166

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10166

gagagagaga gagacaagga tcttgctctg ttgcctggac tggagtgcag tggcatgac 60
 atggctcact gcaacctcga cttctggggc tcaaggatcc tcccatctca gcctcccaag 120
 tagccgaggg actacaggca cgtaccacca cgcccagctc ctaaggacat cagctttaag 180
 tacaatgctc caatttcttc ttttcacaag agtgtatcca tgtattactt atgaaattga 240
 aagtttaaaa aagctttgag aaatacaaat ctagggggaa tgtcttgagt gagtgggatt 300
 ctgacgactc aacggattaa atgtcatgag ggctgatccc agctgcctgg aatgggtctg 360
 ggctgtggaa ttgcaccgac aggtgtgcca gcacagcgt ggccctggcc aaggtgtgga 420
 acacactgac tcccagcact gntccgaggt gctgggaacc ccaagtgcaa gacattacaa 480
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<210> 10167

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10167

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gcacagcaag acttgtctgc agacacacag gaggcaaacg gacagcccgt caaccagaga 120
tggagacgaa ggccagcgtg gctctcacag ggcagcgctt ctcagaacct ctggccccc 180
tcgtgccaa gctggcctgt gtcaggcctc gccacgcgc cttatgaca aatagaggcc 240
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accctgcaaa tcccaccca cccnaggca cctncgtcta anggtgtcgg ttactccagg 360
taaggagggt cccaggangg ccgtgttttc cctaaggctg atgaaacttg ctccgacaag 420
ccaggccact gggaggcacc tcaggatgga aaagatgctg gaggctttgc tggctttcag 480
gatgcccga gcccacggg ggccaaangg gaagaangaa agcgantntt aagacagatt 540
ggtgntggt 549
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<210> 10168

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10168

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caatgtccac atcttcatat ttatttccac agtggttaaca tggaatagac ttagcaacca 60
ttgcagagaa aaaaaaaaaat ctctcattgg tttatgagtt aaatcctgta acaatgaatt 120
tcaaccattc gaagtcttct gctgcttaac atttactgaa tcaaaggctg aagtaaattg 180
actctcatct aggtctcaga aatcacacag ctggcctcgt gatgtattta cgatgggatt 240
taacttctaa tacaaggcaa gtttgacagt tacagccaat gaagtgcacg actctgtaca 300
tggatttctt gacctaacat tcaaaaggac atttcatagt actagtttaa ttctgatctc 360
tctctagaag gcagaaacca catccacac tcctatgcaa tttgttattt tggatttgta 420
aagtaaattga ataagaaggg gtggaggcat aaagaaaatc tagtttctgg ctgggcangg 480
tggttcacgc ttgnaatccc gcncitttggg aggccaaggc ggntggatca cnaggnn 537
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<210> 10169

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10169

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gagacaggtt cttactctgt caccagggt gaggtgcagt ggatctatct cggctcactg   60
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tataggcaca tggcaccacg tccagctagt ttttgtatit tttttgtaga gacgaggttt  180
cgccatgttg ccccggctag gcttgaactc ctggcctcaa gcgatccact cgcctcggcc  240
tcccaaagng ctagaattac aggcatgagg tactgagcct ggcttgactt ataattctga  300
tgaaaatgtt caatgtcaac ttaagaatgg gcaagggagc acatgggctt ttggaattct  360
tttttttttt tgagacggag tcttgctctg tcaccaggc tggantgcan tggcgtgac  420
tcggctcact gnaaccttcg ctccgggtt caagcgattc tcctgnctaa ccttccaagt  480
actgagaata caggcatgca ccaacacgcc cagctaattt gganttttag ganaaanggg  540
gg                                                                    542

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<210> 10170

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10170

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aaaaacatga gagcaaattg tacatatatc aatctccctt gcttgtcttt aagaaagggc   60
cgttcatagc atttggcaca aaccctctat ttctgttgca ttagcatgat tttaaataag  120
aaggaaaata aacatttgat ttatttcatt cticctaagt ttctgggcag ggacatgcct  180
tactctttta gaaaccaatt ccaagatgac atctgactgc atttttctgt tgggtccgaac  240
ttctaaacaa acactcataa agtaagttaa aacaatttgg agatgtatga ggaaaaagtc  300

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ttgttctgtt cagttcagac ttgttataaa aaaaaaaaaa aaaangaaaa gaaaaaaatg 360
ctcatttcac atgtccatga tcttcatgga ttttttttaa gcttatttga gtttgattaa 420
gggacaaaaa agaagaggcg gcaagttttc cctatctctt tggagtgttt cgctcaagga 480
aattttgctc atcaagggtca gctacatacn cagnggacac atnaaaggca aactgggggg 540
ctccgaggat acaaagg 557

<210> 10171

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10171

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tccacctaga tcagctaagg acaggggtat gtttacaatg agaacaattt ctctatgcgc 120
attaggttaa gacctcttct ctgtttctag aatactgtga tgactccat ccatgggcca 180
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ggtgggaaaa tggggctggg gtgtgtaact tgtccccttc caggaaggga cccaggcacc 420
tggtctcctg gccaaagatca caggcgatcc aagagtcctc cagggaagaa caagactgna 480
cagacgcaca gcanaaangc tttcctggct ggncatgaac tgccatggng acacgcttna 540
ttctagcccc caaggg 556

<210> 10172

<211> 472

<212> DNA

<213> Homo sapiens

<400> 10172

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 ggttactggg tttctcatal aaacagatat aatatcactt ttaagagaaa tgtacacaag 120
 gaagtaacca tagtaccact tattagtggg ggcctctggg tacataaatg ngtcctccca 180
 aatagtcac atacattcaa tgtattgggt agggccaaaa tccctaaacc acctntcaac 240
 aaaacattac acctttgggt ctttattatg caaaaattac aaattggcaa attcaataag 300
 aggatgcaat gggatttgag catnacagcc aaattgctta tactaaaaaa ttttaaattc 360
 ttanaatctt ttttcttaa acctttnct tttccacctt acatnagaaa aatggatgct 420
 taaaacnaaa cnggaggagc aantaaccaa ccaaaaaacc cnttcccaa ng 472

<210> 10173

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10173

ccatggctta cttttatttt ttattataaa aacacataca agagttttta gaaataacga 60
 atataagaca aatcaaaacc atggtaggtt attaaaccca ttttctatat acaaatacta 120
 aaattcccaa agnggaatat catccaatgt gagacacatc atagcacggt ccatatgtac 180
 acggcacaca gagctctgcc tgcgctcatc tgtgaattgc tcattacatg tcaactgataa 240
 aaaaatctgc aagggaactt ctactcttca gttctctctt tctgatgca ttgtcacata 300
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 ctgcatgttt tgctctgac aattacgcac tacatcttga gaaaaacttt tgcaactcat 420
 ttccagcaaa gatagcagaa aactctangt ttttgccaat taattttttc ctagcctcat 480
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<210> 10174

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10174

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gtttttgttt ttttttgaga tggagtcttg ttctttggca aggctggagt gcagtgggtg 60
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ccaagtagct gggactacag gcgcccgccca ccacgcctgg ctttaattttt tctattttag 180
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ccggcctcga cctcccaaaa tgcttgatt gcaggcatga accaccgtgc ccagcctcat 300
tagttcttaa agtcactaat agcattatit tatgcccacg aaccagtaag tcagacccaa 360
gcctgaaata gtgttttctg aaaaatggaa aaggaaatat aagaatttta aaaacaaacc 420
ttgaaatcag tttctcaagt taaaattctg atggatgtca caaatagtaa gggcttcctt 480
actgagctct ggcatctgnt ttggctttta tgcatactgg gatttgggaa gctgctgctc 540
aacattctag cccatttnca gaggggnc 568
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<210> 10175

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10175

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agtcacacaa atgaccgtcg aattgtgacc caccctaagg caattggctt ttctgaggac 480
taaggaggga cnaggagcta aggaggaccc ctttatgccca antaaaacct ctggggaact 540
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t

541

<210> 10176

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10176

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atatgagtta tttgctttat gtaatcagta atctcaagg tttctctctt tctctggaaa 180
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aangc 545

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<210> 10177

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10177

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aaaatggaga cgacagtagt tacgacaaat acttgagaaa agcctatgaa attactgact 180
ttggtagtcc agccaaacat ttgcttcagg aaaagcatcc agaaatataa tgatttaggg 240

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atatcaaggt atactatata aagcattggt gtatatatta tttcctcttt tcccttggga 300
 ggtaatatct gaattattat cagactccta atgaggaaac actctgagaa gtgagaagcc 360
 tgccttgtgt caaantgggt aaaatcagag agacaaaggc gttagggtc gactcaggnc 420
 ctctgacttg cagggttcta ttgaagtgn caccttgcct gagctttnaa gcttaaggaa 480
 tgggcnagg aataccctgg ggncattcnc nccggaa 517

<210> 10178

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10178

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<210> 10179

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10179

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 ccttgtcccc tcacctttgt ggaggtgggg tttagctgga gctgaagggt agtctgccct 420
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 ttcacaattn cttgangagt ttttngggg ctttatt 517

<210> 10180

<211> 463

<212> DNA

<213> Homo sapiens

<400> 10180

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<210> 10181

<211> 484

<212> DNA

<213> Homo sapiens

<400> 10181

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agcctttctag ctacctcaca ggtcagactc tgggccccag gaacccttg ccctgggcct	120
gccctcaggg aatgattcat aattaagaga aaagccttgt gctttatgtt tcttcctcct	180
cctctaagca ggcggcaggg gaaggtggag gggttggaag gggaatgggg ggaaccgact	240
ggagactggg attttgattg agaggcccca ttatccacac tcttaaaaaa ataaccgaat	300
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gagc	484

<210> 10182

<211> 355

<212> DNA

<213> Homo sapiens

<400> 10182

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ctgaggncag gaattcgaga ccagcctggc caacagggtg anaccccatn tntacttaaa	180
acacaaaaat tagcagggca tggnggngca cacctgttgn cccagctact tgggaggctg	240
aaacnggaga atcttttgaa cccgggaggc ggaggttgca gcgagccaag atcacnccac	300
tnactccaa cctgggtgac agactgngac tctgncaaaa acaaaaacnn aacn	355

<210> 10183

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10183

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 taacaggtgt gtgccaccat gcctggctaa tttttngct tttagtagag atgggggtgc 180
 accatgttgc ccaggctggn ctggaacttc tgggctcaag tgatccacct gcttcagctt 240
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 acacaaggca agcatgcctg gatccttttg gacacanggg ncacatacat gccctaatta 480
 cttgggagag atntncatac ctttntntg ggggggcncg cgttcctttt caaggccaaa 540

<210> 10184

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10184

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 cagtttcagt ctattattat tattattatt ataatttaag ttctggaata catgtgcaga 180
 acgtgcaggt tacataggta tacatgtgct aaggttggtt gctgcacca tcgacctgtc 240
 atctacattg ggtatttctc ctaatgctat cctcccccta gtctccatt cctgacagg 300
 ccctggtgtg tgatgttccc ctccctgtgt ccatgtgttc tcaactgntca attcccactg 360
 atgagtgaga acatgtggng ttnggtttct ggccttgnga aaagtttgct gagaatgata 420
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 aagnattcca tgggatatac gtgccggaat ttenttaatc ccggctatcc tnga 534

<210> 10185

<211> 528

<212> DNA

<213> Homo sapiens

<400> 10185

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caaacaaata agttttatng gcatntaaaa acaaaattca cccaacattg aaacgtncct   60
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cacaaacnct tactttggan aaacaganac cgtagnngtan attttacaaa atcacttttt  180
aaaatctctg tattgggctc ctcaaatacc tanagccagt ctttgcataa aatatcacag  240
ctttatctat aaccttaaaa ttctgcagca gcctaaagat atggataaga tntaccacca  300
cttgctattc tgaaatatnc ctattaccat atccaacctt angatagtat ctaaaaaatt  360
ctttcttcca taggaagtct ctgacaagct gntattcatt tccttgacgt taaaagaatc  420
tggggccaac atttggattt tatccgaaaa aaattnaaaa aaggttaccc accatgggtca  480
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<210> 10186

<211> 503

<212> DNA

<213> Homo sapiens

<400> 10186

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gagggctggg gaaaatctta atggccaaaa cataaaacaa acctgcgtgc acacaaacga   60
gacacaatta cagaaagcat agagcctggc tctccccctg gcctcaaate ccccaggttt  120
gagagtcatt acttctgggg gatggtgact agaaggtggt gggagggagg cttctaggag  180
ctggtgatgg tttggtggtt tcttcacttg ggagcctgct cctgggtgag tgcgggtgaa  240
aagtcatcca gcaagacctt cgctcttctc tgcaggcagg taggttatcc ttgagccatg  300
gggatgacag aaagctccca ctgctcanca ggggtcccgg ctctgcgca ggtctctacg  360
gactctnttc tgtgacctgg gcaatgccca actnttttca atattcaagc tgtggcgtn  420
ancaaggccg ttatgggaag gaangggcaa aaggatcaaa gtaattggga accantgaca  480
ncgggttaag ggtnatgcc a n a a                                         503

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<210> 10187

<211> 447

<212> DNA

<213> Homo sapiens

<400> 10187

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atcatcaagt ctiaccattt atttctttat ggggttaaac aagagcagag aggcctntgc   60
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gcagggttaag agggagggca gagacaactg aatcatagct gggtaaggga ggaagggatg  180
ggggactact aggaaaccag tttggagact cagtcatagg aactagtga agaaagtcct  240
actcatgaag cacgngtag aaaatggcat aagaaagctg cccggctctg ctgtctgtga  300
tggagggcag gggcagccgg anaggtggtg gaagattagg gtggtggggt ggatgggggc  360
agtcaaatga ctttgaggtg gantgaggtg cccctttnc cttgccctggc aaggnccttg  420
gctggnctga ccanggtct tctnggn                                     447
    
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<210> 10188

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10188

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gagacagaat tttgctcttg ttgccaggc tggagtgaac tggcgtgatc ttggctcact   60
gcaacctcca cttccgggt tcaagcaatt ctctgcctc agccttccaa ggagctggga  120
gtataggcat gcaccacat gcccggctaa ttttngttt ttagtagaga cggggtttct  180
ccatgttggc caggctggc tcgagctccc aacctcaggt gatctgcctg ccttggcctc  240
ccaaagtgtt gggattacag gcatgagcca ccgtgccag ctgactttca aacgaaagtt  300
cactttacca tcaaactcaa aatgtagaga tatattcaat cgtgtgttta gtacagcttg  360
taaattccca ttcaaagggt aactgtaaa tagaatgcag gtcataaca agtatttttc  420
    
```

aactcttagg atggntgaaa gactgtctca gaaaatctgc aatgaactca naaggacact 480
 tttttgtcag aaaaattcac cgtaacttt aaaantacat ggctgaggcc ccaaggcatn 540
 gtna 544

<210> 10189

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10189

gacagggtct cactctgnca cccaggttgg aatgcagtgg tgcaatcctg gtccactgca 60
 acctccgcct cccaggctca agcgatacac ccacctcagc ctcccagagta gctggggacca 120
 caggcatgcg ccattacacc tggccaattt ttttgnattt ttggtagana tgagttctca 180
 ccatgttgcc caggctggtc ttgaactcct gagctcaggn gatccaccct tntcancctn 240
 tgaaagtgtt gggattacag gcatgaccca cggccttcgg ccacanana gtttctataa 300
 aagacggntt cttgccatct cagcacacca tcgcgaagga gtgacgggct ctttcagaga 360
 catggagggc caggcacctt gtgaccacat gcacaagtga ccagnacaca aaantgggtg 420
 aagcaactgg gccctgggcg cctgacccaa ggngggggccc atccanggga atgggatttg 480
 gatggagann cccgngg 497

<210> 10190

<211> 279

<212> DNA

<213> Homo sapiens

<400> 10190

gggagacagg gtctcactct cactcaggct ggagtgcagt gttgcaatct tggctcactg 60
 caacctctgc ctcttgggtt caagtgttc ttgtgcctca gcctcccag tagctgagat 120
 tacaggcatg tgccactgtg cctggctaatt ttttgtattt ttagtagaga cgggggtttg 180

ccatgttggc caggtctggc tnaaactcaa actcctgac ccagntgac cgnccgcctt 240
ggcttcccaa atngctggga ttacaggctn tgagccacc 279

<210> 10191

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10191

agattcatct ttttaatgac atcctaaaat tcagaggagg ggccagcggg acctctgggc 60
tcagcggctg tgaaggaggg acccgcaaca cccgctaagg caggtaatg caagaaggca 120
ctcgcgaggg ggacttcaag cccctcttct atttcttcat ataaaatcag ggggatgggg 180
aaagctcaa gggcgaggga agcagagaga gtttctctcc cagcctatgg aataaggaag 240
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acagacacac acagcccgca cctgccctcc ctctaaaatc tgcacccggg gctgtaagga 360
agccccgtgt tcaagcccc atctcttctc ccttctagct ggtaccaagt tggtaatcac 420
cactctgggt gatgtagcga acccagggca nggcctggta ccacttttct taatgatent 480
catgtatcgg acctggatcc agaaaacggg gaaatnngg gatctnaact tgaccnatt 540
gggggggccg gcctt 555

<210> 10192

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10192

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ctctgcctcc tgggttcaag caattctcct gcctcaccct cccgagtac tgggactaca 120
ggcatgtacc accatgccca gctaattttt gtatttttag tagacatggg gtttcaccat 180

gttggccagg ctggtctcaa actcctgacc ttgggatcca cccaccttgg cctcctaaag 240
 tgctgggatt acaggcatga gacaccagc ctggccggtg gacccaaatc ttaaagcaca 300
 tactctactc tagtggttcc taaactttag catgcatcag aatcatttgt agactttgtt 360
 aaaacacaga gttttggtta cactcctacg gttttttaat caagtaggtc tggggtggag 420
 gctgacagct agagtttcta acaagttccc aagcccaact attgctggtc canaaacccc 480
 actttgagaa ccactgggct ancncaca gnggtcaata gnttacnggg ttat 534

<210> 10193

<211> 486

<212> DNA

<213> Homo sapiens

<400> 10193

ganacagagt ctagctctat tgccccaggc tggagtgcag ngggacgac tcggctcact 60
 gcaacctntg cctcctgggt tcaagcgatt ctctgcctt agcctcctga gtagctggga 120
 ttacaggtgc cgcaccagn gtccggataa tttttggatt tttagtaaag atgggggnatc 180
 atcaaattgg ncaggctggt ctggaattcc tgacctcagg ngatccacct gcctcggcct 240
 cccaaagtgc tgggggttaca ggcatgagcc actgcacctt gccagtcagg gcacttttaa 300
 aagcaaaggt cctattcaaa tgtaagggt ctttatatgc aaagaggtta cacgaagctg 360
 cagcagntag attaagagcc aacacatcct tntntgcccc tgggacacat gacnttaac 420
 aaactccaca aacttttcc tttatcacca anaatgaanc ctggtatgct taaaaaccng 480
 ggngaa 534

<210> 10194

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10194

gagacagagt tgtgctgttg cccaggctgt agtgcagtgg cccgatcttg gctcactgca 60
 acctctgcct ccaacgttca agcaattctc gtgcctcagc ctcttgagta gctgggatta 120
 caggcgtgcg tcaccacacc cggctagttt ttgtatitit agtagagatg ggggtttcac 180
 cacgttgccc aggctgggtc cgaactcctg gcctcaagt atctgcccgt cttggcctcc 240
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 aggcatata tactgtcaag ttacacgac acaattcact taactatgat gaattatgaa 360
 gttaaagtgc aagctcggtg aagtgtcagc attttctatg cgaatgacct atttgcagaa 420
 aagcacacaa tggcaaaaca agtggttaat nacaaaaacc actnacaaga gtgaatatcn 480
 tntaggaag tttcacntaa aaaaattaac cgnntan 517

<210> 10195

<211> 535

<212> DNA

<213> Homo sapiens

<400> 10195

cctatgaaaa tgtttttaat tttcatcttt tggaaatata tttttcattt ttatttccac 60
 catacaaaaa tgtgaaatat ctaacaatga tctatctgaa gcgggtggag caaagcagcg 120
 ccatgagcgt ttgtcgttgc tgtgatctgt ttcaacggag aatgggctgg gacatgttgt 180
 agatttgcac gatttcacac acacacacac acacacacac acacacacac acacacacag 240
 acacgtacgc acacagctg ccgtaccccg agaccgcat ccaaacaac gaacagagac 300
 tctggaaagt gaacacagcg ccacgcataa gaacagaagt taacctttt actcgtacat 360
 ccccatgag aaactcacgt ctaggagaa aggaactcta cataaatatg ccaaaggcc 420
 agggcatagc gcaagccctc tcatgggtgg gcatgagtgg acatcttnt gaaggaagga 480
 caagcttgaa agcgcattgt ttcangcagc tntngnggga agcagggang nccaa 535

<210> 10196

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10196

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agagattcag ggtgccatth ttatttccca tggagctgag gacctgagca caggcagcca 60
ccagggtgct tcagaccctc ccgaccttca ggggtgggag tggttttgga gttctgatct 120
tgggtaggca ggcctgtcat attgccagaa atacaggcat agaggcaaga gagagaagaa 180
gaggagaaga agatagcagg aagtaaaggg gacaatgaag agagctaagg gactccttcc 240
ttcttctctc tggcactgtc tccttctctt ttctgcctcc acaccaatct cttggccacc 300
agctggaatg tcaaacagtg gatggtgaca gcaggcaggg aaggggccag ctgcaaggca 360
ggcccaggca ggaggccggc agcaggagga acaggatgac acccttggga agcagtttgt 420
gatgggcagg gcacacagat ggccctgctg anggcitttt cgtacgaang gtcttccatc 480
tccaaggcna cacgtgaagt cttntccaac tgggcattgg gcttgactgc cgccccggat 540
cttcaagang gncaaaaaa 558

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<210> 10197

<211> 509

<212> DNA

<213> Homo sapiens

<400> 10197

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gcaacacaag tcaatcttta ttgaaaactg cagtattaat acataacaat tcttggttaca 60
ataaacgtgc ttttgagatt tttaaatctg agctcatctc atcagattgc ataaaaaatt 120
aaaatagtat caattgacac ctaactgaac tggctcagga tggaaattcc attccttggc 180
atggatacgt aagttcaatg cagaggtgag ggatgccttt aacactggaa gacaatgctg 240
acttagctta aaaaaagtac cgagagaacg gtgtaaaaaa cggtatttaa aaatcatttt 300
taaaaaaaca aaaaggaacc gtttcttctt tagttacaat ccatgaggct ctctagggcc 360
tctccgtgtg gccagcacag caaccctgct aggagcacia acggctggcc tgagatctgg 420
cccagctgcc ttgcccactg gtctgcatag ggactcatgg gcacagcctg tgggtangan 480
gganaccctg ncatgnenan cctgggagc 509

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<210> 10198

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10198

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agtagacaca ggggtcttgct atgttgccaa ggctagtctc aaactcctgg cttcaaagga   60
ccttcccatc tcaacctccc aagcaaccag cattacagag atgagcagct gtgcctggct  120
gaattctttt tttttttttt ttttttgaga cagggtctca atccgtctcc caggctggag  180
tgcaatggca caatctcagc tcaactgcaac ctccacctcc tgggttcaag tgattttcct  240
gcctcagcct ccctagtagt tgggattaca ggcactcgcc accgcaacca gctaactttt  300
gtattttag tagagacagg gtttcaccac gttggccagg ctggtctcaa actcctgacc  360
tcaggatgat tgcctgcctc ggcctcccaa agtgctgaga ttccggcgtg agccactgac  420
ccggcctgaa ttcatttttg gataaaaatc caaaggagtt tataatgcct gcaataaaaa  480
tcattcntat nccttttaac atcttantgg ccaaacacat natngcaat taaaaataac  540
ccccnaaaaa aatt                                     554

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<210> 10199

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10199

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gacacagagt cttgctctgt caccaggt ggagtgcagn ggcacaatct cagctcactg   60
caacctccac ctctgggtt caagcgattc tctgcccga gcctcctgag tagctgggat  120
tacagggtgcc tgccaccaca cctggctatt ttttttttaa tgagactgag tttcactctt  180
gttgcccagg ctgggatgca atgacgtgat cttggctcac tgcaacctnt gcctcccggg  240
ttcaagcaat tctcctgcct cagtctcctg agtagctgat attacaggca tgtgccacca  300

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tgcccagcta acttttttgt attttttagta naaacggggt ttctccatgt tggtcaggct 360
 ggtctcaaac tcctgacctc aggtgatcca cccacctcag cctcccaaag tgctgggatt 420
 acagacgtga gccactgcgc ctggccctaa tttttggatt tttagtanaa acanggggtc 480
 actatgttgg ccaagctggc ttnnaacttc tgacctcagg ggaacnggtt actttgccn 539

<210> 10200

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10200

gatggtggaa atcattttat tctcatacac aggttattac agcacaatta ggaagagaca 60
 atcacaactc acacaatgct atattcaa atgccaag tccaacata ttcatttcat 120
 ttgcaagtta attcctaaaa gatcagagca gagtgataca caagtttatt aacacagact 180
 acaacgtcaa tgaagcctcc tggcattgtc ggaaatagaa aacatgtata aaaatcttcg 240
 aaatgcaggt taaaatgcaa atccaagtga aaggaaaaag cactactgtg aagcctaacg 300
 gcaattat tcccttcaaag gaggtttgtg tccagctgga gagaaggcct ggtggacaga 360
 agacaaagga aggcaaaatt cctaaggag aaattcaaaa aaatgatggg ggtgcttgcc 420
 ctctgctggg cctctttgca gcgacttcaa cttaatgcat aacgccgtaa ggttgtaaga 480
 aaagcaactt ttggcttgat cttaaaaaag ctgatttctt ttggcagcat attncggnga 540
 gaactgn 547

<210> 10201

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10201

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agcctccacc tcctgggttc aagcaattct ccctgcctca gcctctcaag tacctgggat: 120
 tacaggcaca tgctaccatg cctggctaata ttttttattt ttggtagaga cagggtttca 180
 ccatgttggc caggctggtc tcaaactcct gacctcaggt gatccgcctg actcagcctc 240
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 ccctgccttt ccaatgagaa cctgggagat gattaaaata ttccatttta tatgtacact 360
 gcactttaaa aattttttta atttaacttt ttgagacaag ggctccctct gttgcccagg 420
 ctggagtga gtggcacaag tcttttgtca ctgcagcctc aaccttctgg actcaagcaa 480
 tccttccatc tnaagcttcc aagtagctgg gctactgggc acatggccca aaaccagtta 540
 attctgnatt tt 552

<210> 10202

<211> 577

<212> DNA

<213> Homo sapiens

<400> 10202

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 gctttgaagc acagcacaca aaatgaaaca atttaaaacc ccttcataaa aatgggaaaa 120
 attcccaggc caaaggaaaa aaaaagcctt cacagaaaga gactgacact cgactcccc 180
 cctgctgagg tgtggccagt gagtctgggt gtgagctgcc acctgacagc cagctctgag 240
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 acccgttcat aggcagtcgg aatgcagatc tcggtggcag gtgggtcttt gcacaagtcc 360
 agagtgataa aacaatcaca gatgactaaa tgccanggac tgggtgnaag caggtactgg 420
 cttgcagctn gggcacttct gncnttatta gacctgggtg naccatgacg tgaggagAAC 480
 ggagcacagt tccttccgng cttctgccgg gcttggttaag gngngcatgg ttgancctgg 540
 caagcatttg gattttggag tctcactctt aggccaa 577

<210> 10203

<211> 590

<212> DNA

<213> Homo sapiens

<400> 10203

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ctctttcttt ctctctctcc ttctctctct ctcttttatt tgtttattta tttatttttt 60
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acgtctagag aacatgaaag tggcagagca aaggagcaga aagctagaaa gagctggatt 180
ccctgattca caatggtagc ccggtaccct aaaccagccc tgggttcctt atctctgtat 240
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accacactc tgcacccaga gtcataagatt cacagagcta ttgccttaat ggatcatcct 420
cacacctagt tcacaagatc aacgacaggc tggcagctta aagaattccc gggggaacaa 480
ggcattggaa aagtcaaggt tcctggggcc acccatccct angggatttg gattctatga 540
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<210> 10204

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10204

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aaactagatt tttattttta ttatatttcc atgtgaagac atcacccaaa tgtcagcgga 60
gcaaaagact ttatgggtcag ataccaaagg cgtacagttg atcccacttt ggaataaatg 120
cccagaaggt aataagcatt atcagttagt gagagctcta ggcacaaaat aagttctcat 180
tcagaaagtg gacagagata tgaagcagtg aaacatatag ctttaaaaac tggaaatcat 240
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gtagaatcag gcctgattaa gtaatatatta tgacttacag ataaaattca aaaataaaaa 360
tgaaaactct tctggccctt gaagagatag aaaactatat tttttccct gnatggccca 420
gagattatca gtattcatcc ctaaggctgc ttaaaaaaag gtattttnaa tcggctttct 480

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ggtctgcnc tttacatagc aaacgggtta tatggcctct tgctgagtga aaggangata 540
attcctgctn aatgaaagaa ctccatttcc 570

<210> 10205

<211> 469

<212> DNA

<213> Homo sapiens

<400> 10205

acaattaggg tcatttaact atttaattgc tttttgagat tattgctgaa attaggaagg 60
gagcattgaa atgggaaggg ggaggttaga gaagacagag atttaaaaga agcaagtacc 120
attttccaag tataaaactc gtaatattaa aagtacata gcagtatatt cacatgacta 180
cttaagtcta atgcagaaac aagacagtac agtttttgca gaggccgatg tgacatctgc 240
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cacacataca caaaaataca caatgaaaag cctacaaaag gtgtaagtc caactaaggg 360
tcttaaatgg aaaattaaag gnggctccag tanggncctt tggaataccc cttttccctn 420
ggcccatggt gnccagccn aaaggaacca agngctcggg gctgggtct 469

<210> 10206

<211> 285

<212> DNA

<213> Homo sapiens

<400> 10206

canggtaagg cttttgaaag atttatngaa ataaattatc ttgcctaaa aatttacctg 60
tcaccttttt caattacttt tcaacattct aaaaactttc cgttatgtaa aatncattta 120
aactttgcca ataatingtag ataatacngg attcttccca aanggactac cacaaaacaa 180
agctttcaaa gagtaaaaaa aaaaaaaaaa aaaangtaat ccaanggggc ataaaactgn 240
ggtctgtanc ctatgacttc anggttcaaa tccttaangt taanc 285

<210> 10207

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10207

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cctggtgcag ccagatgttc taacttttgg acaaatgagc gtggtcagta atgtacaata 60
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atgacagaca gaagagcaag ggcactatca gaaatggaac aggctgcccc ctactcctcc 180
cagcctctac cagtacacag agacagactg gagatagagc attcgcagcc agttggcatc 240
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acgtccagag atgatggagg aattgcatca gcatcatatg cncagtgaaa nggtggcttt 480
ttgtccaaaa aaggccattt ccgggcctgg tacatggcct aagggcctgg cggaagtttg 540
aaaagctggc ttcaaanagn 560
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<210> 10208

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10208

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gaaggacagg gttaccgagt ttatttcttg gtgcctccaa gagctcatgg aaaagcagca 60
cagtgagcaa caagcaacag tggtcagtaa atgtatatga ctcaacacat tgccacagtc 120
tcagcttggc tgtgtggtac atgctgccaa gggtcgggtg ccaagagaga gcagaatgaa 180
gccaggtccc caaggaagtg agggcccaaa ataggagtg tgggtgatga ggggtggagtt 240
caaatccaga tgtcagagct acaatcgccc ccagggtagc ggagctcatg ggcaagggtc 300
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gggccaaggg gctccttccc gaagtccacc aggaagttgg ggttcaactt cagccctcct 360
 tttactgngt ctacatcaac ctgcagcatc acagagcctt cctgatgaga tcagggtaaa 420
 actgcttggc ccaagccttg tcaacgacct ggtgatgtaa aagcctttcc atccagctga 480
 actggacatt ttaagggtt caancccccg ttttccttgg ncccttaggg ctttggttgg 540
 acntttatt 549

<210> 10209

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10209

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 attacctgtt gcgtataaga gaggcaacat agatccaaac agacaaaaca tttttgggg 180
 atgggtgtat gtatacagct aaagcaaatt caacattagg aacatcaata ttatgtactc 240
 cagtactata cacagcgtca attaaaggct tcacttcaga ataaggcatg tgaagaggaa 300
 atccagagaa cctgtagtct cccagctgtt ttagcagttc tgctctgtgg catcttctac 360
 atcttctcct tgactttttt ctaacagagg caagaagtga cgcanagtag angtaccata 420
 cctatcccc cgagtcanaat ggcgtggnet ncagtccatg actgatcttt aacctgctgg 480
 aggacttgnn tactatnggc ctatnggggg ctaagggtcc tnggttctat acattctggc 540
 tnggaaccgt tnt 553

<210> 10210

<211> 505

<212> DNA

<213> Homo sapiens

<400> 10210

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atacactggt atcaagatgg tatcggtta taacattcct cttagcagcg gnggttgngt 180
tcccagaggg cagaatatca gtatgatgaa tttctcggca gttatattta gacaaagaag 240
gagtattatc tggactgttt atataattca angttccctt aacgcttagc tttcggctaa 300
attctggcaa ctttttcatt ttcattgaaa gtttcctcac agttcgtgga gatatttattt 360
tatctggcaa tgaccaatta attgaactgc ctttttcaca gggctaggat ttggaaaaaa 420
atgggtccat aattccaatt cagnctatt tgnancancc ngaanccaaa anccggcaaa 480
ggggattcac atgggactgg cctcc 505

<210> 10211

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10211

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caagctctgc ctccgggtc cagccattc tcctgcctca gcctcccgag cagccgggac 120
cacaggcgcc cgccaccatg cccaactaat tttttgcatt tttagtaaag acagggtttc 180
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caaagtgtg ggattacagg cgtgagccac catgcccagc ataaaattgc taatttttga 300
cataaggcaa tttctttctt tttttgtttg agatggagtc tcgctcagtc acccaggctg 360
gagtacagt gtgcgatctc agctcactgc aagctctgcc tcccaggttc acgcatgct 420
cctgcttcag cctccaagta gctgggacca caggcgcccc gcancgggcc cagctatttt 480
ttttggaatt taggnaaaac ggggcctaac atcttncceg gaaggntnn anttctgacc 540

<210> 10212

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10212

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agctgggatt acagggaccg tgccaccatg cctggctaata tttgtattt ttagtagaga 180
tggggtttta ccatgttggc caggctggtc aagaactcct gatctcaggt tatctgtgtt 240
gcccgtcaca gcagccacta gccacatgtg gctactgggt cctgaaaatg tgggtggcaa 300
aacatacacc caattttgaa tacttaatac aaaaaagagt acaaaatata taatgatgtt 360
aattatatgt tgaaataact tttagaaatt tgtgttaaaa tatatagtga agattaatct 420
cacctttttt tttttctttg gtgagacagg gtctactgtc gccaaagctgg antgcaatgg 480
cgtgaacctt gnttactgga accctnaact tacangntta aagggaanct tccccntaa 539

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<210> 10213

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10213

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aagagacagg atctcattct gttgccaga gtggagtgca gtggcatgat cgtagcttac 60
tacaacctca aattcctggg ctcaagtgat ccttctgcct cagccttcca aagtgtctggg 120
attataggca tgaggccact gcgcccagcc tcgttagtca tttatctacc aaatacatgg 180
aaaactcaca gaatcagagg gtcttatcac caaatctatg tttgctttgc aaaaggctcag 240
gtcctgcatt ttcaaaatgt tccttgtgct ctgttatgct ttatatttca tagcacagca 300
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gggttataaa cttcaactga gtccaaggta cctggagcca aaaaatcatg gctggaagat 420
cgacctccag aaacatacag aagaccattg actgccacaa cacacatgcc tgctctangc 480
actttcattg angcaacttn aaccacttt tntcttttaa aaggaaattt ttcnccggt 540
tggaan 547

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<210> 10214

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10214

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caggaaaaaa ttatttaata gtataacaaa atgcaaaata aagtacccaa gttacaaaac   60
ataaattcct ttggttcattg atcacaccac tatttttacc ttccacatag ctacagacat  120
cacaccctca aagtgaagtc aaactgtccc cctcatactg aagatgtcat gccaaaacca  180
tcacataccc cactgttcag tgaaactgtt ggcaacttac atggaacaga gctgtgggggt  240
aggaaaaagg gaaaagggtt gcgttaaaaa aaatggggag actctacaca tgcagaacaa  300
gttagtgggg gggagtgctc tgctgggtca acacgccatg aaccacaccc ctattcgtgc  360
tacatgaggc tgagtccttg ctacaaccac acagaaatac agacaatcaa gtgaacctga  420
gcacccccag ggataacaga agaaaaatac agagaagcag aggagagaaa gaatggcagc  480
aagangcaga tcacagaatc cangggacac ctagtncnaa cctggtttac cnatngggna  540
ag                                                                    542

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<210> 10215

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10215

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ganaaggagt tttgctgttg ttgcctagtc tggagtgcaa tggcacaatc tcagctcact   60
gcaacctccg cctcccgggt tcaagccatt ctctgcctc agcctcccga gtagctggga  120
ttacaggcat gcaccaccag gccagctaa tttttgtatt tttagtagag acggggtttc  180
tccatgttgg tcaggctggt ctccaactcc tgacctcagg tgatctgcct gcctcagcct  240
cccaaagtgc tgggattaca ggcatgagcc accacagcca ggctatTTTT ggaattttct  300

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aaagcacaaa acacataatg aaaatacagc ttcaaatttc cttccacata tattcttgag 360
 actaattaca aagttaaagt gaagggtggt tttttgtttc cagagcatct tttttagaga 420
 gaagtaggta tagatggagt tgctatacat aaagcactga aaagnggctc tttcaggatn 480
 ggaaacaaca ntttccttta aaataacct ntggggggcca aaanaaagn 529

<210> 10216

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10216

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 cagctctgag gccgaggctg gcgtcctgtg gcagagggcc tgtggattgc catgctcgct 180
 cccaggggtg gctcaacagg gacacaggtc tactccttcc acatcgggtt tccggaacaa 240
 caactgaact ctcattcatt accatcccat tcattacat ttttttttac atacacgaaa 300
 cacaccgcaa tgtatagact aataagccaa gagctttatt gatgcagcag gcactttaca 360
 atgagcccaa gagtgtccac cttctctggg aagacaggat gtctgtacaa actcttgggt 420
 tttttccac ttcaaaaaca caagctttcc cgtttaccac agcccttgga tctgnacctg 480
 gccaaacat tccttcccca aggcacacag ggacctttgg accaanacca gncngcaac 540
 ttgnaaaacc ggna 554

<210> 10217

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10217

gagacggagt ctcactngt agcccaagct ggagtacagt ggtgtggctc actgcaacct 60

ctgtctctgg ggctcaagcg attctcatgc ctcagcctcc caagtagctg ggactacagg 120
 cttngnctac catgtccagc taatatatat atattttttt atttttagtag anacgggggtt 180
 tcaccatggt gccagggng gtctcgaact cctgagctca ggagatcagc ccgactcggc 240
 ctcccanagt gctgggatta ccagcatgag caaccatgcc cggcctaatt taagtttttt 300
 ttaatngat gttgaagatg cttcagaaat gactagtcac tctcacatga ctataccact 360
 gctgcatgag gcataaggta cttccctgn cctgnacacc acaacgcacc acaactgaca 420
 cgtcgtgggg cccttcacag acacctgtgg atggaatgaa tgaagggcaa ccattacatc 480
 ccnggacaga accttggaan ctgggcattg tnccaaggcc cggccggaaa aatggct 537

<210> 10218

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10218

gaaacggagt ctcattctgt caccaggtt ggagtgcagt ggtgtgatct cggctcactg 60
 caacctccac ctcccaggtt caagcgattc tcctgcctca gcctcccagag tggctggggac 120
 tacagacatg taccaccaca cctagctaatt gtttgtattt tttagtagat atggtgtttt 180
 actatgtttg ccaggctggt ctttaactcc cgacggaccc caagtgatct gatcacctcg 240
 gcctcctaaa gtgctgggat tacagggtgtg agtcaccgag cccagcctat gtatttttta 300
 tttttatttt tttgttgag agatgggtgag gatgtcttgc tttgttacc aggttgggtct 360
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 gtaagccaac gtgcctggcc tgnatttatt ggaattcctt tttncattct catcttaatg 480
 cattttccaa atngagaagg acatccttct ggcttacact ttnaaaaatt nccgttttca 540
 tggn 544

<210> 10219

<211> 512

<212> DNA

<213> Homo sapiens

<400> 10219

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gtggtattaa aacatatatt tatattataa atttccattc tgaaaagcag atcaaaatga 60
cactggacca tccagtcagt tatggagtaa tgggcttcct ccaaagagaa ctgacttggc 120
agaaatttag gttggttaga atgtgattaa catggagtaa acgagatcag gttgtcagta 180
taattttcat aaggcttcta cccactccag ttgtaaggaa tagtactgag ggaactccaa 240
cagaatgtct tagaaggatg cttctcagag acaaagggtc tctaagtta actcttgacc 300
cctcttctcc ttacctaaag cttggggaag aaaataaata ttaattttt aactattcag 360
agctttgggc acattataat aattaaatat tctggagggt aaatttctga cccttggctt 420
ataaattttc taacntacnt tttaaaaagg nntcaatggc ncctttttca gtaggncccc 480
cttgaaattt aaacctnggt ctttcatatt tt 512
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<210> 10220

<211> 520

<212> DNA

<213> Homo sapiens

<400> 10220

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agcaattatg agagcaaata tttattatgt tccagacact aaatcgatgc attacattta 60
gagacactta gttttacaca gtgatcttaa tagttaggta cagtcttaa tcccaattta 120
tatttcagga aaaagaaact gagaaagtat tcatcatgat tagaaaacaa caggcaaggt 180
ttgagctcaa atactctgga cataaaatct tcaactctgaa tacacatatt gctcatattt 240
tcctctcctt gattccttga tgtacctggg gtatcctgag caacacactg acataccctc 300
caagaacctt tagttgatgt tgggtggtgt catgggggtg gttcctatgg actacctagg 360
tagcatggat ggtggctaac aggctttggg cctcttcaca tcagtataa agtgaaacat 420
ggataaatgg gaaggcaagg atgttatacc catactgncg ggcttttagga gggattaggn 480
aactttctct ggaaatntga aaaagaggna angngtnaat 520
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<210> 10221

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10221

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ccaggaaaca gaaaatgtct ttggtctggt attaatatca aaagaattta actttaaaac   60
tgatcccaat aagcatggcc cttacacagt tcatgaccaa tatttagtta tatgaaaatg  120
gttcattctc ttctagaatc taatccagtg cagtcactctg gtgaaagact ggaagtcaga  180
agacttttca aaagcttctc actgaaatgg taatttggta acacgggata aacagaattt  240
tgcataaata gcagaccttt agtcactgaa taccaccatta aacagtactg ctggaccatg  300
atacttatat ctgggagatg acttagtttt aaatttttta tgcagtttct tttcttgaag  360
gaaaaacttc cagacttcag aattttggaa gctgaacgat gagcaggttt ttcatatatt  420
gctgctcaga catttttcct atttctcaga ctttgcagtt cttttcttag gtgctttaga  480
gcacctaaaa tatcagcttg ctgggggggtc attcngggct ttctgagagt ccngaccgga  540
aagtctgggt gg                                     552
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<210> 10222

<211> 286

<212> DNA

<213> Homo sapiens

<400> 10222

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cccaagagcc aagcagactt tatttctgca gcaatctctg ctggtcaggg tgcctgcact   60
cctntacca ctgcccttca tggctgctgc agtggccgca gctgtggccc atggccagcc  120
acactgtcaa gggtcagcga tgctgcagtc atagcanaag ttgaagttgg tgggggggtg  180
gggcacaggg ggtggccgct cggggatggg cacgttctcc agctccagca gacgcagntn  240
ggntccatg gtcagcagnt gntccaggtc cagccngntc tgntcg                       286
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<210> 10223

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10223

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aaagaatgtg ctgcttatat gcaatgggct tattattcct gttgttaatt ggaattggta   60
tacagacatt ttccaatcct tcaggtttca actggcfaat gccagcagac ataccacag   120
agccagagct cctcaggctc ctccacgtcc aacggcgtct cacagtcctg aggatgagga   180
cctgggtgag gggagcacgg gagacacagc catcaaggca tccacctcca ggacagacac   240
cagccaagaa cccctcagg gcaaggcctc tcacaagtcc aactccacgg attccaccgt   300
aagtgtgtc aactggatgc gcatttaca aatctgagtt ttctcaaaga agctgaagct   360
ttcgtgtcc tcagtgttc tggactcca gcgccgtacc actccctgcc agccacacag   420
ggggaccac aggaagcagg ccttncctgt ggccggccnt gctgctatcc ggcttccttc   480
tngcaancg tctgaccgg gaaaggntga gccaacant ggatcctggc tnga           534

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<210> 10224

<211> 488

<212> DNA

<213> Homo sapiens

<400> 10224

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cggagggcag aacaaattca gactttattg tcaggagag gaaaaagggg agggccgtgg   60
gtggggggcc tgggttgcta cattgtcaag cagaaagagt tgatgggaag gggaagacca   120
gtgtaggcca gaccctccc gggtcggcgg ctgaagggtt gacgatacgg aaaccacgga   180
gtcgggggtg ggggagaggt gtcacacccc cgcccagatt gtgcagtga ggtgactggt   240
gggaggggac agccatgagg tctaggaact tgaatcgggg aggtacaga ctcggcgaat   300
cctgcgaagg ggaaggcgg nggcgaggct tctattgctt ttgtctaca gttttgcgga   360
aggcgaggcg gnggtgggct tggactggac accccttgcc cccctcggta ccccttgggc   420

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natggtgctg gtgaaaagaa tggaaccgg acttganga anaaagccaa nggaaagnct 480
attgnggn 488

<210> 10225

<211> 471

<212> DNA

<213> Homo sapiens

<400> 10225

aaatcttatt tcagaaaact tcctcttggg gtaggaaagt acacatgaag cagcaaagta 60
acgaagaaaa acttaaatag ggccttcaga gatccacac actacaaaga ttctgccaag 120
ccataagata agtgtgaagc ccagtatatg tccagctttt ctctcagga catcttcagt 180
gtttcttctc ttttaaacac cacatcaggt tctagccaca gacttgtgtt ttgggtgtgc 240
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ctaacggccg cccttcagga tcacagatgt gcttgggtgtt ggtggcaaag catggcactt 360
gtgtgcagtg atgagaagca gcacacggca aggcctgagcc cttatcagc aggcctccgt 420
anagcgtgtc tgcgttgncg gctgccaang gncntantgg ntggccgacc c 471

<210> 10226

<211> 530

<212> DNA

<213> Homo sapiens

<400> 10226

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caggacttgg aaaaatcata ttctggaaag cagctttgat agtagccaaa gagatgtctt 120
cccaaaaagc cactaaatgt tgtaaagtta agggaagagg agacttagac ttcatgtgt 180
tatgcatgga catttcaaaa gtggtctcgg ttttcccatc ctcacatttt tcatgcagag 240
gtggttcctt aagcatagac aataccttgt tttgttgat gctaccatc ttagatatat 300

ctggtccatg ggggtgcaata ttaaacadat tcagtgcaga tgatatttct aatgaatgtc 360
tatttttttaa cttggtttct ttttcctctg taggttgggtg gctattttaa ctactcctta 420
taggagcatg ttctttggaa agtcaggatg aaactttagg aaagaagaac caagccattg 480
catcatgtct atgccttcat gccngaggaa ggaagcaaac ccagtntn 530

<210> 10227

<211> 527

<212> DNA

<213> Homo sapiens

<400> 10227

attcaacaaa agccttttat tcattcaaaa attaaccatt gggtttattc cgcagatatt 60
aaaaaaaaa aaaaaaaaaa gaggggggca aggcttccca tcacagngcc ctttaagttaa 120
ttcacttgct atccagggat ggcctagcag aggggtgtct gggaacgct gccagaaatg 180
tggtggccca gggcctntga ggactcacag cccctcctc gcctccccgc tccagcctcc 240
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acagggtgac tttccgcctg gcgggtgggc aatggagggt tttccagag acaagcctgc 420
ctnttccagg aanggatccc aggcattccg accttcccaa cnaaccctt tcgnaaaaac 480
ccaaggttct ggaaccagg ggcncctgtt taggaacggc ttgtaaa 527

<210> 10228

<211> 533

<212> DNA

<213> Homo sapiens

<400> 10228

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gcaagctctg cctcccaggc tcacgccatt cttctgcctc agcctcccca gtagctggga 120

ctacaggcgc ccgccaccac gcctggctaa ttttttgtat tttctttagt agagacgggg 180
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 catcaaaaat aagatagggg ctgggattgg gggttacacc tataatccta acacttgttg 480
 anggccaana tggaaaagtg cctgaaggcc aanaagttna agaaccanct ggg 533

<210> 10229

<211> 535

<212> DNA

<213> Homo sapiens

<400> 10229

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 tcaatcattt tctacttctc ccagggcact cagacaaaat cagtgcagg tatatggaag 180
 tacagatgta ctgnatcaga ctagtggagg tgaaaagggtt tctgcagtat aattaaccag 240
 ttaatatgca gcatgaaagg gaaaagtgga cttactttg gcacctgcaa acgtaaaaag 300
 tgggagtaaa gagagaagga aatatttact agtgagtact ttacggtgag gcaaaaagta 360
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 caaaccaga accaccacc cttcattctt ctcttcatct tattcagaac aantattatg 480
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<210> 10230

<211> 257

<212> DNA

<213> Homo sapiens

<400> 10230

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caacctccgc ctcccagggt caagtgattc tcagcctcct gagtagctgg gcctacaggc 120
gtgtgccacc atgtccggct aatTTTTgta cttgtagtag agatgcggtt tcaccacata 180
ggccaggctg gtcttganc tctgacctca ngtgatctgc ctgccttngc ctcccaangt 240
gctgggatta caggcnn 257
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<210> 10231

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10231

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aatccaaaca ccaacttgaa caagagactt tcagttttaa aacattttaa gngggaaacc 60
ctgcctgtca atgcatcatt attgcccttc ttgattgctg ncttggtaga tgattcactg 120
cccctcccta naagaggact atgtgtcatc tgcttgcctc atgacctcag ccttgggcac 180
atgacttgng gtaccagtct ntacagaaga aggatgcctc cttatatgca aactcagggtg 240
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tgggtatagg acagaagaca ggaaggagca gaactatngc agacccaggt tgacacacag 420
nacaagcaag caataagcct tgctgntgca ccctgggggt ttgctttaca gnntaaccta 480
gtttaaaaga ctgggaccgt ctttacatgg gatnccccaa ct 522
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<210> 10232

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10232

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 cagaacaatg gccaccaggg tttaggcatg ctctcctccc acctggaggc tcccactgac 180
 atctgaattc ttctttccac aggttgcctt ggattcagtg acctttcttt ggagattttg 240
 aggaattttc tgctgacctg acttcttctt cttcttcttg ttcttcttct ttacttctc 300
 tttcatcttg attttcttct tcttcttttag actcctttct tgatgtcatg actaattcct 360
 ctagatcttt attttttata agggatgat gaagtttctc atatgcatct tcaaacttct 420
 cctctgcctg ctggctctat tttcaacctc ctgatatgga agagaagacc cncnaaattg 480
 aaaggggtgn aaaaagattt ttggatttgg aactcaattt ntaaaanggc nngggaat 538

<210> 10233

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10233

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 ttacaggcat gcgccaccac atccagctaa ttttgtattt ttagtagaga cagggtttct 180
 ccatgttggt caggctagtc tcgaactgct gaccttaggt gatccgcctg cctcagcctc 240
 ccagagtgct gggattacag gcgtgagcca ccgtgcctgg caggaccggt ggtttttaat 300
 cttcgagtct caatgcctgt ggagaatttg acgaaagcta tgggtatcta cccaaattaa 360
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 cagattccca ggctttgggg atgggggtga agatttatga acncaggttg gtttnaatcc 480
 aaccagaatc ctaaggtttt ttcccatggt tgaggggggt ttaatggggg aatgna 536

<210> 10234

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10234

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atttctgcaa ctccaatgca aaatgatagt ccatgtgttc tggcatatcc cataccggta 180
ccaggagacc acacttctca cagggcactt ggctctcagc agctagaaga cttggatttg 240
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ggctgttggt ggccaaatcc atctctgcag gagttgcttt agaggattct tctagcttcg 360
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ctttacagtt ggaccatggg ttttggtggg gggaagaaac tgaagaatta ttaaactggt 480
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gttgnaan 548

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<210> 10235

<211> 530

<212> DNA

<213> Homo sapiens

<400> 10235

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gccctctgag aaataattgt ttaattgtta ttatatTTTT tttccaagac agtcttcac 60
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gctcaagcga ttttcatgcc tcancctccc aagatgctag gattacaagt gtgtgccacc 180
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ggcattgatg tgctgggtgg nctcgctggc ctttttncct cggtcattta agaagggatt 480
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<210> 10236

<211> 511

<212> DNA

<213> Homo sapiens

<400> 10236

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gtttccactg gtggaatgtc gtactaaaac atcagaggct cataaaataa ttacatagtt 180
aataaagttt taagaaaatt attaactata ggcaacattt tttcatgacc ttctaagaat 240
caaggtggtt canagcatct gacctactgc ttaatcaagc tctcctatat aattaaaggt 300
tactaggtgg ctttgactaa aattatgaaa agggacggaa atgtcttgtg gagacacagt 360
atgaatgata gagcaagact gcttcacgaa aatgtaaatg atcaagttat tttttcccaa 420
ggtttaggaa tccctgaagg gtctgaactt ntaaatgcta acntgnccag gccccattta 480
ccntccgggn cccaaggcnt tcctancata t. 511
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<210> 10237

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10237

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ctaggaggca gaccacggaa gcaagtttgg aggggacagt ccctgacaga ggctagagca 180
tcatccaagt ggaggagatg agacagaggg aaggagagg gaggcctaag gatttcccca 240
gagggggagg tgcatgactg ggcagggaaa gcagcctgct cgcctggcgg ctgccaccat 300
ctctctcacc ggtgggccct cagaccttgc cccattgctt agggagacaa tgactggcca 360
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cagacacacc cccacacaca tttccagggt agacagaagg taaaaaaca aggtggttgc 420
 tcccagcact gcctggncitg ggagctccaa ctatcagagt ccagtgaaca agccattatn 480
 ggcaagnttg gnccgtaaag gtggctggtg gtgnngaata cttgggtggg taaccaatga 540
 aaanccgn 548

<210> 10238

<211> 472

<212> DNA

<213> Homo sapiens

<400> 10238

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 cttgtccgtg ccggggccct cgcccgcagc accgcacgtt cttttagtaga gcagaacccg 180
 aaactcagag cacagcttgc cctgataact gtcttccag ctggcagccc tctagaagat 240
 gtgggaaatg acacattcct gtccagacac aagccacagt cacccccctc ccgagggcgt 300
 ccacggcctg agggaccggt ctccattcag cagagccgca gcgctcaggt cctctcggca 360
 acccacgatac acggcccacg tggtcctgcc catgcccccg ctgccacgcc ccctgntgcc 420
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<210> 10239

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10239

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cctaatactt acagttgatt tccattcagt attcggtatt ttgctcacct gagaatagat 240
 actccccaga gtgtatagag gcccctgtat attcaatgat gaccacaaag aatcaaacag 300
 aaatcagaaa tgacagtcca tggctctatg gtttttaatg aatagtttgn gtagattttc 360
 ccatgaaaca cccctgatct tagttgggtg atttatagac ctatgatggt ggtgggtgatc 420
 agctaagcaa actagccaaa cngaagtaat ttcaaattaa ggccttttac tttgggctat 480
 tactcattat tgggatggng ggtnaagggg aaaatcccaa tttntggccc tnacca 536

<210> 10240

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10240

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 tgtacattgt ggggaattta gacagggcat gtccaggatg acttgctact tctcctcaaa 180
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 gggctccttc acagcctgat gactggcttc tccagaatga gtgtcccaaa aagagcaagc 360
 cagatggaag ctgtatcacc ttttcttatt ctagcctcag aagtcccata gcaacacgtt 420
 tcctggacac tattcttttag aaagtgagtc accaanggca tattcaangg ggaaaaggaa 480
 ttaagaatct ancctttggg ggaaaaaggg ttaaanaatt ggccaagaag ttngggcctt 540
 ntgagtatnt 550

<210> 10241

<211> 469

<212> DNA

<213> Homo sapiens

<400> 10241

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 cttttagca tgtttaaagg aacctagggtg atttagtcaa aagagaacac tgcataaacc 180
 aaggcctcag gtgcttcttg ctgccttcat ttccacagag gagaacacag ggatttagag 240
 gagatggaaa cattttctag gcagttattg aataacggat ctttggagga gttcgtggag 300
 tagtgtaacc agaaagtctt taaaattaaa cccttctaata cgtttgtaag tganatggg 360
 ggacttgga aatctccggg gcctaatacat gctcgcaaaa ggagtacat taatagcttt 420
 ggagaagggg gcttncnttt cntttccagg ttaagtcaac cgtacnnnn 469

<210> 10242

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10242

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 ccgccccac ccatacccc agtgtgcaat ggctagctgc tggcctcctc catctgggtcc 120
 ctccagcctc acagcctcct cctgaagccc ttctcttcca ggctccagaa gagcaggaga 180
 caaacacacc ccaactgaggc ccagctttaa taaagtgcct gatacagagc caggggacag 240
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 tcggaagccc ccagtgactc cagacaaagg ggcaagcccc aaaggcgcct ncaacagttg 360
 gaaaacctcc ctgctagagg gcanaaaagg aggcctggcc ctttaagagc ccagctaata 420
 gcaactggct naagggtta aaaaacnagc tttaggttt ggncccgttt cnttaaaagn 480
 ccccaacctt gaaggagttt ggccaaaaaa nccctaaag 519

<210> 10243

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10243

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atcttttaac gttataattt tatttcaaag aaaacagaaa cagaacaaaa acaacctttg 60
catttgaggg aggagattat tttacagttt tggaaaagaa taagaacaat tgtatcagga 120
aacaatgat tatgacagaa actcgcaccc gacagctgca gtgaatccac gaggacacag 180
accatgctgg tggccacagc agggccacag gtgaatccac aaggaaacac agaccatgct 240
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ttcatatgga cagaaatcac gaagaaatcc tgcaaaaatg gcatcaatat gaacaaaccc 360
ttgttataaa aagcaaaata ttgataggaa caatatcttn cagcgtgtgc gtttcacatt 420
tangctttac tggatgaaac taagtcaaaa ttagaagcac tgggctatct tccaccgaca 480
tatattttac tggatataac cttcaagggt tttcttaacc ataggcttaa aaggattctt 540
tttcccaat gngaccngac ccc 563

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<210> 10244

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10244

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cagtgtgatt ccaagcaggc tcatggacta gtgcttacca taaccaggt gcaccagcaa 120
tctgggatat ggtctccac agaagcactg catacagaga aggtgcattt atttattcag 180
tagacagcaa gatttcccag ggagaggaaa accgccctgc cccacctcta ccctggcttc 240
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tcacgtcacc ctgtcgcca ccttgaccaa taggtcaagg gagacttctg ccagctcgct 360
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cctggcggac gtggggcccc actctggctt tcttctttgn accangccct tgcaatggat 480
tcttgctgct tgtaggaaaa accngcttct tggangagcc tttnttaaaa caaacctggg 540

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tgggccaaaa ctaanggtgc nct

563

<210> 10245

<211> 513

<212> DNA

<213> Homo sapiens

<400> 10245

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 ttattggaaa attagcaaca tacacatcat tttggggaat ggaaagtgag gcagagtaag 120
 ccagaacatt cactgtaaca ttataagcaa gtagaataaa ttgataatac cttcaccagt 180
 aatgcacttt ccctagtgga aataaattat ttgtataaat agcctcttga tgtttgtgtg 240
 ttatttagtt atacaaatca catttttctt ttttacatat ggcactttaa tgtagtact 300
 gaaaatgttt tttctgacat ttttcagta attgtcattt acatcaaata tgcagctaga 360
 gctaatagaa aaacagttaa aacaatttgt tagnaatggtg agatatttat aaggaaacat 420
 ttatnaaaga tcttctgtaa gacagcttaa acttgaaaat cntatcaggc cttaaaagca 480
 ntcaagnggt tttaccancc aaaggttnnga agc 513

<210> 10246

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10246

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 ttccaaaaca gcaaaataga ttcttcccat ccaaccccct ttcctcttgt agagtagggt 180
 gtggctcgtg gggcttcgtc tctctgcagg cacagaaact ggcagacctg gtcctcctg 240
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taacaacact gtgcatttct gtgtcatttt gtttattgct cactgagttg ttgccacctc 360
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atgggtccgtt agggacacag ggcagcccca gccagatccc actggtccat gcagggcatc 480
gcagtagaaa ctnaacgtnc cacttngtaa caggctncaa gacaccaatt ccggcancat 540
gggaaagaan taaaccttn 559

<210> 10247

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10247

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caacctccgc ctctgggtt caagtattc tcctggctca gcctcctgag gagctggcat 120
tccaggcatg tgccaccaca cccagctagt ttttgtattt ttagtagaga tggagtttca 180
ccatgttggg caggctggtc ttgaactcct aacctcaggt gatctgcctg cctcggcctc 240
ccaaagtgtt gggattacag gtgtgagcca cagcgtcaa tctttccttc tttcaagctg 300
caaataaatt tatggaaaat gtgaacactc atcttcta at gcttccagaa aaatgaaatt 360
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ttactggtaa taaagatcac cagcagcatg gacaccaga agagaattgc aaagaagtaa 480
gtgggaaaga agatgtcaac ataggcncgt atgactacng gggaaaatgn cgtctttaaa 540
caatggcaat tggagcntta antggccct 569

<210> 10248

<211> 532

<212> DNA

<213> Homo sapiens

<400> 10248

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 cacatacatc agaaagaatt tggcaataag ttaacaccag caatgtctgg aggttgggtt 120
 attcgatttt ttttgtttcc cttttcttta ctctatccag aagcaggggc tataattgtc 180
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 caaagagtgt atgagcgaat gagcatgggg tccagccact gtgcacagcc acgcatgcta 420
 gctgctgtgg caaggcagac agcttcaggc accagcacia gtgccagctt catgcaaggc 480
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<210> 10249

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10249

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 caagctccac ctcccagggt catgccattc tcctgcctca gcctcccag tagctgggct 120
 acaggcccag caccacaccc agctaatttt tttgtatttt tagtagagac ggggtttcat 180
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 aatttttcaa actaccatat aataaacatg tctttcttta ctttttttg agacaagggt 360
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<210> 10250

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10250

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ggtaggggtca tttgctagta gaaaagaaag ctgggattcc ccatttactt tggagactga   120
ggagaaagaa ctgctttccc cactcgtgtc tgggcaaagg gtgtgcccag atgttggcaa   180
aggaaccaga caaaatcaac agccagcagt tttctgttcc aaacagttag ctcctctaca   240
gtccagaggg aagctattcc tgagttcatt caaggtgaca gcggaagtgt ttctctcctt   300
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gtgtaacata accagaaagg ctgaaggaag gctcttggcc ttcccagctt gagaagtagg   420
ggcctcatgt gtatctggtg gnctgcanag cccaaagcag anagctatga tgaataaaat   480
attttaatgn tttctaaaat aactccttta tatccangga tncctcagta nggccctatt   540
atcctaaagc tcttg                                     555

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<210> 10251

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10251

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gagacagagt ctcactctgt caccagggt ggagtgcagt ggtgcaatct tggctcactg   60
caacctccac ctcctgggtt caagcaattc tcttcctcag cctcccaagc agctgggatt   120
acaggcacgc accaccacgc ccagctaatt tgtgtathtt tagtagagat ggggtttcat   180
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ccagcgtgct gagattacag gcgtgagcca ccacgcctgg ccaagttggc tttcttttac   300
acaacatgat gcctagtgga ttcacccatg tttctgtgtg catccgcagt tcattccttt   360
ttattgggta ggtagcattc cattgtgtga acacgccatg atttgnttac tcattccact   420
cctgagggac atttgagttt tttccctta agctttttgn aaattcaagc accctttcat   480
aatitggctt catctttctt caagggaatc nctttttttt tctcaaaagg atccngaaca   540

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atagnattn aanccttcct ggaancgggc

570

<210> 10252

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10252

gtatTTTTag tagagatggg gtttactgt gttaatcagg atggtctcga tctcctgacc	60
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ctggcctctg tgaaggcttt cacaatgccc tgggtcacct caccagagaa catgcagctc	180
cgaatactgg ggctcccacc agcctgggag acccaggaga gcagggtcgc gggctgactc	240
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gcccaccctc tgccttggtt gcccaggaga cccagctgtc tccttctgc cctgctgagc	420
tgaggccact gggagacaga ttacacaga aagtcacacc gggggtgaag ggcttttgga	480
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<210> 10253

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10253

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tacaggccac aaccacgcct ggctaatttt tgtatttttt agtagagatg ggcttttgcc	180
atgttgacca ggctggtctt gaactcctga cctcaggtga cccgcctgcc tcagcctccc	240

aaagtgctgg gattacaggt gtaagccacc gcactcagcc atgcctgctg tttctcaaaa 300
ccaagacctg ggggaagtgg agaaagatgg atgttttgga aatgaatggg ctcaagacca 360
acaagagtga ttgcaggtct cagatagtgc ctctcccacc ctagtcccga cctcctgagg 420
aacccttcag gacatggcct gcaaaagact aggggtgagca gggtatggca ccaagcaccc 480
attggnccag ttggtgccac gcattcccgt gactgggaag agacaacgta nactggactt 540
accctntaan ggggttaaac ccggggggnc 570

<210> 10254

<211> 447

<212> DNA

<213> Homo sapiens

<400> 10254

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caacctctgc ctctgggct caagtgattc tctgcctca gcctnccgag cagncgggac 120
tacaggaata tgccaccaca cccagctaatt ttttatattt ttagtagaga cagggtttca 180
ccatgttgat caggctggtc ttgaactcct gacctcaggt gatccacctg ccttggcctn 240
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gattttctgg gtacacaatt ctaggctatc actattttct cccaggactt tgaagatatt 360
atttactatc tttctggctt ccactgntgc ttttaatcaa ctacttattn tcttctttcc 420
ananaancnc tttcttttnt gccttaa 447

<210> 10255

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10255

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 ctaattattt gtactttttt gtagaggcag ggtttacta tgttgcccag gctgggtctca 180
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 cagatgtctt gaggcctgag ctctgttita tggcaagcaa cacagccaac catgcacagg 360
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 aaagctttga cactggatct taagaaaata agtaaactcc ttggtacaaa agcncittaag 480
 aaaattaatt acattaaaca cagttcagga agcaccgtgt gatctggcca tgccaggcag 540
 gcaaaggggn tttcaggggg gc 562

<210> 10256

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10256

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 tacagggtgca caccaccaca cccagctaag tttttatttt tttagagaca gggctcttgct 180
 atgttgccca ggctgggtctc aaactcctgg tctcaagcaa tcctcccgcc ttggccttcc 240
 aaagtgttg gattacaggc tgnntttaac gtgtattatc ttattactag tatatattac 300
 ttgttgcccc gtctgcccac aaaagacacc actgaagtgt atatatgttg caagttcctc 360
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 tctagaactt tccacaagcn cacacaaccg ngtaaataatg aaggttccca gaccaacctg 480
 cccaccgggn ttttnaaaaa aaaaaaagng ggaatttncc aaaggcctgg tttgaacggt 540
 tcccc 545

<210> 10257

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10257

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agataaatct gttcagataa gtccttatg aatccttcag atcgatgttc ttgaggaaaa 60
cagtcaagct aaacagcaat gatgactttt atggtaaagg atgagctgat cactagctaa 120
gctacttagt caccatcctg ggagatgagc tcacaggcac caaggctttg cttcctgtgg 180
cctgctagtt acagtgaacc agtccatgg attgacaagg gtacacagga tgacagcaga 240
gcaaaggagt ttgccaagta tttgttctgt cattaagtat tcaaaagaac atatattttt 300
cttcatggaa cataactttc taagaatgaa atttggggac ttgaatgatt caagggtcaaa 360
tattaaacat tagctccttc accaatacct gncattgnca ttagaaagga aggcctcttg 420
gttacgtac tggngattca caagggtcct ttgtcggcca agaaggcccc tttgnggctt 480
ggctttaact ggcaatggaa gcctaaactt ttgcccttag gcatctangg ctttccangg 540
ttggaagttg caacccaatg gtg 563
    
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<210> 10258

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10258

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gaaacatgag ctcacttggg gctctctggc ctctttattc ccatctcctt aggctgaccc 60
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ccaggcaggg gagggagctt acggacgggc taggctcagg agagtaagag agagcagatg 180
aagggcagaa gtccgtggcc gcagaggcag ctgagcatga gggatggagc gtgctgctgt 240
cctgcaggtg ccgttagccc tgttttgac tgggtggattg atctgctcag gcgcacaggg 300
agatggcaca gcaggacccg ccgcccagcc tcgctgaggg catgctccc cctcacctcc 360
agaggctgtt gggcggaagc cgaaaagctg cagcagttgg ggccagcgtg ggactggang 420
cccaggtgaa tcttgtgggg caaggacgg agcttaagct gtcccggccc gggnccttcc 480
    
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canccaaagg ncctaaaacc ttagccttta atccttgggg ggtttgcttn tccctgaanc 540
ctggggtttt ctga 554

<210> 10259

<211> 575

<212> DNA

<213> Homo sapiens

<400> 10259

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gcacagcagt gagaggagct gaggccaagg gaggcagtca cacaccctag ctctgcaaga 120
cctccaagat ggcccggagg atggcagcag ctgccaccgc cccggggtct ggctgctcca 180
gccgtgctga gctgatataa ctggctcttc cggctccagc ttccatattc ttggtggcct 240
cggctgcagc ttcggcactc ttgactgctt tggtcaggac ttgtaacaga tcagctcctg 300
ggctcttcca ggcttggagc tcctgccccg ctgccacag agaaccagc atagtctgt 360
cccctggagc agccttgcca tacttctgca tggcttccag gcccggcatc catggcagca 420
gaccaggctg ggaagctggt cttggccttc agggcttgtg caaccccagt caggaacang 480
ccataaacgc cccaaatgaa ccttccatct tttcaagagc ngaccgacaa cttggaaaac 540
aacttgcaag gcttgcaang gggtagggccc tcctn 575

<210> 10260

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10260

acaattctca tattttattt tgtaaagca tgataaaaaa ttaacgtcat cattcagatc 60
cattatttgg aatgaagaat ttagtatttc ctgactgcct aatttggcac tttgaggaat 120
ttcctctgca cgctgagccc caaaatgcac tattttctag accaaaaatg aaaacgtgcg 180

tatatacaag tgagctgaaa agttacaaca caagatgatac attttgggtga aaaataatcc 240
 ccccaaataa gcagcatgtc atgtccttag aatatgttac actagaaagc tagtaaaaaat 300
 tcaggctaag gaggcaattt agagttcaag ttttatcaca ttcagcaaa gtttttagcct 360
 tcccttaaaa acagacacct tcaaagtga atcttgccag aagggttgat ttttaattat 420
 gngtatatac aaacttctct attttaacat tcaacatatt caggattaan tctagaaagg 480
 agctatagct gattattaaa ccaaagtgtt aggaccgaag gaaattgggc ccccaattca 540
 tnganncctn 550

<210> 10261

<211> 476

<212> DNA

<213> Homo sapiens

<400> 10261

attttaatat tttttattaa gggctataaa aaatacccag aaagataaat aaatgngatg 60
 caatgatatac tggcctaata tgaanaactt tctttcactg nattgntttc cttcacaatg 120
 gccttcaaat cacaggaggc agtgattcca tgccatttcc tcttctttta ttacacgcta 180
 caggatttct gaatcagtat ccccgccctc agtcttctct ttataaatca aagtcatttt 240
 caatccaccg tttaaaggga gcgtattttt ttcttttcca cgaanaggac tctttgnttc 300
 actatggagg gagaaaaaaa aattgnggca gaaaattatt aagtatcatc gccattttta 360
 taaaaaatca ttcagacca taagccctac ctttctctta atttactatt cctggatatg 420
 aaaaatggag ctgatttggc aactcagttc ctccatncca ggagccaggg cagatn 476

<210> 10262

<211> 495

<212> DNA

<213> Homo sapiens

<400> 10262

ctgagacgga gtctcgctct gttgcccagg ctggagtgca gtggcgggat cttggctcac 60
 tgcaagctcc gcctcctggg ttcatgccat tctcctgcct cagcctcccg agtagctggg 120
 actacaggcg cctaccacca cgcccggcta attttttgta ctttagtact agagacgggg 180
 tttcacggtg ttagccagga tgctctcgat ctcccgacct tgtgatttgc ccgccccggc 240
 ctcccaaagt gctgggatta caggtgtgag ccacggcgcc cggctggtgg ttttcatata 300
 ttacaatgt tgtgcaacca ccacccatt atctaattcc agaacatagc ccgtcacccc 360
 aaaaaggaac cttgcatcca tcatcagtca ctctctatit cccctacccc acttncctgg 420
 caatcactaa atcacttttt ggtcatatgc cattgnttaa taatggacat ttcatatataa 480
 tnatacacia ngggg 495

<210> 10263

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10263

gccaaaacaa actttattgc nccaaaaagg aaaacaaaaa aaacaaaaaa acttcattta 60
 tatacagtca gatntaaaga catntntttg actcctgngc atatatttcc tcaactcaag 120
 attagggcat aaaagtcagg ctgctatgcc anacatgctn tgccctatgg cagggccaaag 180
 gagaggattg tcacttgaaa gngggaacnc ttaaatggat gacagacaac actggaccca 240
 cagaccaaga gcattcttnt aagccctgga gtagctcgag gaatggaaga gggaaattgg 300
 aagcagggtc ccttttcgat ctcatgtga agagaccag cctnttcaag ggtatccaag 360
 ataaacttcg ttcccaaag ccaccaatc cctgnccagt cctttgnttt ctgccttcn 420
 aataggacat tctcctttgg ggccaagccc ccttgnaca aaatcctcca ngg 473

<210> 10264

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10264

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caggttttta tttttttatt tcttatattt tttaagacgg agtttcactc ttgttgccca 60
ggtgcagtgc aatggcatga tctcgactca ctgcaacctc cacctcccag gttcaaggga 120
ttctcctgtc tcagcctccc aagcagctgg gatcacaggc atgcaccagc acaccagcc 180
aattttgtat ttttagtaga gacagggttc ctccatgctg gtcaggctag tctcgaactc 240
ccgacctcag gtgatacacc cgcctcggcc tctcaaagtg ctgggattac aggtgtgagc 300
caccatgcct ggccccctggg gacacttttt tcagaggcca gatgtcaact tccatctcca 360
catgcctcaa gtttacacat cattgcatct cagcacagag ccccatcatg taagggntac 420
tttgggttat tctggccctg tgagaagaaa ctattggcag cnaaagccat actggccttt 480
ggcaactttt cccaagt 497

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<210> 10265

<211> 489

<212> DNA

<213> Homo sapiens

<400> 10265

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gagacagagt ctgtctctgt caccaggt ggagtacagt ggcatgatct caactcacca 60
caacctctgc ctcttggttc tcctaaatcg ctgaagcggt tctcctgctt cagtctcccg 120
agtagctggg gttacaggca caagccacca cgcctggcta gttttttgta ttttagtag 180
agttgggggt tcacctggtt ggccaggctg gtctcaaact cctgacctca agtgatccgc 240
ccacctcggc tccccaaagt gctgggatta caggcgagag ccaccacacc tggcataaaa 300
tacattcttt aaattcatat tatctgcttc ttttacttc ttttaatgtg gctcctggaa 360
aatctaaaat ttgatttttag atctatggct ccattatagc attcctattg ggcagtgtctg 420
gtcttccttt ccatgagaac ccttagctg ggaaaagttt ttctggacta attttttttn 480
aaattttna 489

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<210> 10266

<211> 491

<212> DNA

<213> Homo sapiens

<400> 10266

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aaagaagccc aaacacattt tcttgctgta tttatgttga attcccatc tacaatgagc 60
agtcacgaag atggtcttct tcagggcaac atggtcacag gactggggca atccagggga 120
ctgagagggga gcgtgaggat gggaggtggg gctacctcct gctgtttcac attagagaca 180
aactgtaaca cagtccatgg gcctgcaacc gtcccctttt attatctggc ataacgcgtg 240
atgtagtgtt ccactttatt ctggaagtcc tccttgctct gcaaattgat ttctgtagct 300
tcaatattca gtggatcatc aaaattcaaa aatcagtaaa caaagagttt aatccccaaa 360
cgacatcctt taatgntctc atgggagccc aaccagtgcc cgcaattgna tggctctctca 420
gtaactcaga catatttccc tggctttggg aatgttgggg tgccanactt tggtcaggcn 480
tttacttttg g 491

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<210> 10267

<211> 495

<212> DNA

<213> Homo sapiens

<400> 10267

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gagacggagt ttcactcttg tcacccaggc tgaagtgcaa tggcatgac tcagctcact 60
gcaacctctg cctcctgggt tccagcgatt ctctgcctc agcctccaga gtagctggga 120
ttgcaggcac ctgccaccac gcctgggttaa tttttgtatt tttagtagag acgggggttc 180
accacgttgg ccaggctggg cttgaactcc tgacctcagg tgatctgccc accccagcct 240
cccaaagtgc tgggattaca ggcgtgagcc actgcaccca gccaaaacgt ttttataaag 300
aggttttaaa aagatgggta tgtgtatatt atgtgtat ttataattaaa aagttggggg 360
aaacatttta aaatagtac cataccaat tgttggttaag gctgggggca accggaattc 420
ataccactgn taatagaaat gaaaaaccgg ncaactactt nggaacagtt tggcaagttc 480

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ntttctttct ttnnn

495

<210> 10268

<211> 431

<212> DNA

<213> Homo sapiens

<400> 10268

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ccaaatgcac acaaaccctg tctctctcaa gaatcactga tgtatttcat cgtagagttg	120
agaatttcta ggccatgaag ctttctcagt tgagcagcaa atctgggctc agctgtgcac	180
agcttcccca gagcaatgcc tgcgttcacc tgcacggccg tcttctgtgt gtcactgcct	240
gcaagcttta acaagacctg caaaaggctc gtctttagca gggaagacgc aacgttgggc	300
acctccatgc agttaccaag gcagagggca gcgttgccca ccagaacctc atcctccgag	360
ctgagcagct tcatacataac gctcaacttt ttatccagtc ttantacttn ttnccgagct	420
tnangnanac c	431

<210> 10269

<211> 499

<212> DNA

<213> Homo sapiens

<400> 10269

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ctgcctcccg ggtttacgcc attcttctgc ctcagcctcc caagtagctg ggactacagg	120
tgcccgcgcg tacgaccggc taattttttg ttattttttt tagtagaggc ggggtttcac	180
cgtgttagcc aggatagtct ccatctcctg acctcgtgat ccgcccgcct cggcctccca	240
aagtgtctggg attacaggcg tgagccactg cgcctggcct aatttttact tcgtctggct	300
tgttcactac tttggcccaa cagctggctt aaccgcgcatc tcgcctgaca cactagaatg	360

acacagtgga atttttggat ggtaggttta tgtggcttca aaaacaggaa gtttctactc 420
taggtcctaa ctagaaggat tncnttagaa acataaaatg caaattnagc aatctataa 480
aagtnggtaa aaaaagtcc 499

<210> 10270

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10270

ctttccatt tggaacaagt gcccatcaaa ggcttaggag atataaaaga tgtacaagaa 60
caactccaag atccctttta agagtctttc atctttctgt aaaaactaaa ccaagataca 120
taacatatga gtgtcacata tcgcatgcta attcagaagc aagctatatg aagcaatagg 180
aaacacagag ccgtcagagc gggaaagccc tggaggcacg agtcagcgat gacaccacag 240
ggtattcaag gagcaccaat ggcttcagg tggcagaaac aatggaggaa ccagcctgag 300
tcaaggagga ctactaggt aagcttggga aatagggctg aagacgtgga ctgagcagtc 360
gatggaaggc tcggaagtca gacatggntc acctgcgaca ggggcctnaa caagagaccg 420
gtntnaaggc actggtttta ggcentnggt ttaaaacccc ggttgccttn aac 473

<210> 10271

<211> 445

<212> DNA

<213> Homo sapiens

<400> 10271

cacagtccta cacataattt atggtattca gaacatcact ttataaactg ttgccaaatt 60
accacttaaa cactaatatc caaatacaga atttagaaaa ttattttaaa ttttaactct 120
accatcccc cgagctctcg gctatgaatt tagtctggga agagggctcc gtaataggcc 180
actgaggtcc tctgtccac cacatcatcc tccccgaaa actagctgcc cgactgctct 240

accagacttg ggctagaatt tggcttcacg gtggcaatgg gaccacctgg gccctacagt 300
gtggcaaaat caacttgccc acaaacccca tcccagggtgc tgggatgcta acacactgaa 360
gctgaaagac cacacttggn ttgcccacag atcaagctgn atntgactag acaggctggt 420
ctntacccta tttinctgnaa aangc 445

<210> 10272

<211> 493

<212> DNA

<213> Homo sapiens

<400> 10272

ggctttggct ntagagcatt tattgnaaac aaaattgagg taaaagaagc tgacccanaa 60
cccacgcccg tccaggctgg ggaagtctnt actngcccca caccaggccc cgagcaccgc 120
gggcccnaag cagccccan aggacanacg ggccctgcgc actgaggtag ctgcatntta 180
agccccatg agtacaactg cccagggtg cccaattccc anaggggagg aggagagaga 240
ggcaggcagg gggagccccg gcttnaggng gggcacaccc cacaccctta acaaacctnc 300
cagccttting ggctgggcac ttntgcctg gncaccacgc cagccatggg gcaacggggt 360
ggccacaaa agcgggcctt cttgggtcca agncacttgt tgttcaagca atccttggn 420
acccttggg aagcaagta anccagacgt tttgaaggta nttggggtcn ggataaccgn 480
ggccctaattg ttc 493

<210> 10273

<211> 429

<212> DNA

<213> Homo sapiens

<400> 10273

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ccaagtcacc agagcgcagg tgcagagagg aaaagctgtc agctagtgcc agcctccaag 120

ggccagcgct acccttcaac agctggaggc accactgtgc gaggctttcc acaccggcct 180
 ccctcaggaa caagacatcc tcaccaggca ggggtgaggt atgggctcca ggactggctt 240
 cagcaggcac caggctgggg caccagctgg ggcctgggta cgcccagaag gtcacacaga 300
 cggttgcgct gctctctcac cactgcaagc tctgcgtccc acgcagtgtc actgagcaca 360
 gtcaccacct ngccaagac atncgggccc acgaagnac ttgangngaa ccatgnnttg 420
 gacccttg 429

<210> 10274

<211> 490

<212> DNA

<213> Homo sapiens

<400> 10274

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 caggcgcgccc ccaccacgcc tggctaattt tttttttgta ttttagtag agacaggttt 180
 tcaccgtgtt agccaggatg gtctcgatac cctgacttcc tgatccgccc gtcttggaca 240
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 agctggcagg aaaggagaga gtggctgggt gaagaaaccg ggttgaacaa tgttttgntt 360
 ttttcggatg ggaggtatct gaacatgact aaatnccgat ggacagaatt gatngaaang 420
 ganaattgcc aaaagagcnn aaggcatttt ggaaaagaag gaggaggacc canggtccta 480
 aggggaaggt 490

<210> 10275

<211> 520

<212> DNA

<213> Homo sapiens

<400> 10275

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 aaactacaaa aaaatctccc ctccttcctt acgatgtcat ggtagtctga ctcctccagt 120
 ggcaactgcag ctctggagtg gccagctcac cacagcacc tccacttcac cttggggaga 180
 ggagggatgc tgggtggttaa ggaggttaaa accattagtt ccagtaatgc cagttcccaa 240
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 tccagccatg aggagcaact cgaggagaga aaatatagcc caaggagggtt agaagagttc 360
 caatatacct cctcccttcc cccaccttaa aaaagaaaaa aaggcagttt aaggnattta 420
 ttacccccaa aatnggttcc ccttaaggct tgaaaaaagg accaagatgc cagcnttgag 480
 ggagtntctga aaactcanag ctnatctatc cttgagcctc 520

<210> 10276

<211> 475

<212> DNA

<213> Homo sapiens

<400> 10276

aatcagggtt tgactacttt ggaggacagg ctttagggag aaacctgttg tgcttgtttt 60
 tttttttttt ttccagggg tggcgggggg ggttggcagt tggcatttct cttatgcctg 120
 ctccagctct atccanagac gtggcatcat agagacatcc cgatctcctc tgtggaggtc 180
 atcggactgt acggaanatg gggatgggat agaagaaaat ggactggcaa ccagctctgc 240
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 aaacgaaatg tcaatactct gccctagcga tatctgtgcg aggcaaaaaa agaaaaaagc 360
 aagcaagcaa accagcaagg gctttggcgt ttgggaaaaa ttatttaaca ncanttgnnt 420
 gcaccttttg aanaccctg gggnttccaa acccggccaa tcntgttggg naggg 475

<210> 10277

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10277

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agcatgcaat tttttattgg tttctaaatc tatttgtaca cttaatatgc tagtattaat 60
ttcacaaaca gtataaagaa tgtactccaa tgatattacg cggcaactac tcacctgaaa 120
aagaaaacat tgtctctgaa ataattccta attatacaat tttgcaaata agcactataa 180
atattaaaat gttaagactt cagtgtataa tgtcaataac atcctgcctt tttaaaaatt 240
gcttaaaaca tttgttaaag atcatgcaaa ataaacactg tattaaaatg ctagattaca 300
ctcaaacatc aaggcaatga aacacaaaag agcaactatt tagcacaatg actggcccag 360
taaataactt aatcagcata ttaataaaaa cccactgagt gataaacatc gaaaatgtaa 420
cactgaatct agataatagc gcatntggcg atctaccatc taccgnccta actggacttg 480
ggggnaaccc nccggaatca ttctacataa atgagctntg tnaaacgata ccatattcat 540
tgn 543

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<210> 10278

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10278

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agtgggggaa ggggtgagagc tcagcactca ctgctttatt atcacagtag gtgacaaagg 60
ccgcagggag aggggggaaag gtccagagct gtggagaaag aaggggctcc ctgtctccag 120
ggtttgttta aggttttctc catggcctag ggcccagcca cttccctcac tggcctcaaa 180
gccctggagt tgagccctct aggagctcaa gggcaggcag gagatgggcc agagaggggg 240
aggatgtgtt ctttaggtac agaatccctg accacggggt ccagtcctg tgggcccaacc 300
accaggaagc tgtgcatgcc cacagcccga ggcccctggt aatcgagag gtaattatcc 360
ccaacatggg ctgccactac tggttccata tgaacaagcc ccaaggcctt ctggaaaatg 420
ccggggtncc gcttgggcca accacaacct nngangtcaa cnccaaatca antggtcacc 480
ccagnccaag gccttcaaga tgcctttaac cgtcggcaa 519

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<210> 10279

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10279

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ggagatggag tttcactctt gttgcccagg ctggagtgca atggcatgat ctcgctcact   60
gcaacctccg cctcccaggt tcaagtgatt ctctgcctc agcctcccga gtagctggga   120
ttacaggcgt gcaccaccac acccagctaa tttttgtatt ttagtagag acagcgtttc   180
accgtgttgg ccagcctggt ctggaactcg agacctcagg tgatccccct gcctcggcct   240
cccaaagtgc tgggattaca ggcgtgagcc accacgcccg gcgtcctttg taaggtttct   300
atccactatg aattcttcga tgttttgcaa ggtttgaatt ttgagtaaag accttgccac   360
attggttaca tttgtaaggt ttgctccagt atggattgcc atatgggtaa gttagggttg   420
aacgaacact gaaggctttc cacactcatt acacctataa gggttttttc cagngggaat   480
tcttctatga tttgcaagat gggangtttt gaagtgaaga ccttgccaaa ttcgttacat   540
ttggaang                                         548
    
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<210> 10280

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10280

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ggctttttta aaatttactt attacttggt cttagcaaat taagacaatt acaataaaac   60
atcagctaac tgggttcttg tgagaaaact gaggtcagct tggaaggag ttccccgagt   120
ggagttccca gcgccccgcg gctgacggcc agatctgtcc tgaggggtcg tgggagccca   180
gcgcctgcct tgagggaat gaacactgaa aacaggattt gggagcagta ttggattgac   240
agcagagaag ggactgtttg taagggcagt ttctcactga agctgctacc attttccttt   300
gtaaagaagt catccacctc ctcccagcgg tgcccatttt caagacgctg cccgagcctc   360
    
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ttaaaacagc ttcttgaaag ggtttttcca caacgggttc tggaatgttc tgcttcagct 420
 ctggaggatg ctctaaatta gttcaccatg atgaagttag atttgcagtg agctataact 480
 ccgtcacagg gtcattgctcg ccttccgttt gatggtacct gcnagctgca ttctcaggat 540
 gggga 545

<210> 10281

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10281

gagatggagt ctgctctgt cgcccaggct tcctgggttc acgccattct cctgcctcag 60
 cctcctgagt agatgggact acagacgcc gccaccatac ccagctaatt ttttcatact 120
 tttagtagag acaagggttc actgngttag ccaggatggt ttgatctcc tgacctcgtg 180
 atccacctgc cttggcctcc caaagtgtg ggattacagg cgtgagccac catgcccggg 240
 ctcaagggtt gaattttcaa cataacttaa gaaacctca tcctttgggg ggatgaccgt 300
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 gggcaaagtt ctctttctaa ttanaatgna agggacctga naactctatt catgnctaaa 420
 ttgcaagggc cataaagggg ccaactcatt atanggggnc aataaagaat ctggtngata 480
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<210> 10282

<211> 512

<212> DNA

<213> Homo sapiens

<400> 10282

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aagatttagg ttgaagttat cattctctat gaatactccc atgtgcatgg ttcattttatt 180
 acagtgcgtg aattactctt tttttaaggt tgtttaattt tctttttttt tattatactt 240
 taagtttttag ggtacatgta cacaacgtgc aggtttgtta catatgtata catgtgccat 300
 gttggtgtgc tgcacccatt aactcgtcat ttaacattag gtatatctct taatgctatc 360
 cctccccctt cccccaccc cacaacaggc ccagtggtg gatattcccc ttcctgngtc 420
 catgtgttct catcgnitcaa tccccaccta tgagtgagaa catgcngngg ttgggtttct 480
 ggccctgggt cagnttgccc anaatgangg tt 512

<210> 10283

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10283

atttaaatac atttatttga accggcctgg gggaggcttg atgttgatgg gttggtgatt 60
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 ggtgggcaca ataccatctt gaacgccac aaaaaggttt ggttttgttg ccaaagggca 180
 ggtggctcca ggcagggtg atggtggcag ggtgggggtga ggacaggaca agagatctgg 240
 gtgtggaagg atggccgggt ttctgcagca gcaggaggaa agggtgggag cacacaggca 300
 cagaacactg tgagcaggac tgccaggcca gtgtcacaag cgctaccatc tgggtgtaga 360
 cagacctgag ctgacaaagc tgggggagca aggccaacgg cttaaacac aagctcaggg 420
 gcttgggggtt tatcccaggg gcacagggca nccatgtagg gtggagttag catgagttaa 480
 gcctgggctg ggtgtgtana ctggacaaaa gtgggtangg cangcagtga ccantttgtg 540
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<210> 10284

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10284

gcaaagattg ttggaaataa tccttctctt gtacctagaa acataggtgc aaatttctga	60
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tgtggctcag cgaagacact gaataaatac gatagccact gttgcttggt gcttgtccaa	180
gtcttcttgg ctctctgctgc aagaggggga tatggagaag gtgggccagg gtgtgtggac	240
ccgggcagaa tctggggaag aagcctgcca ttctgtcttc tttccacac caccgaaccc	300
actgcccttc ccacccccac agccctttta tgaaatcaga caacgtggta ggtggaaaac	360
agcaggcctt ttcctctggg ttttcaacca gaagtatat tccacaagtt ttaactgggt	420
actngaagt ccaagcggcc agaattnga aaatgtcact ggaacactgn agccgnggac	480
cttaaagacc gtaggccttt taaaatttgg taaaaatttt gggagggctn ttacaagngg	540
naattttttt tttttt	556

<210> 10285

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10285

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gaggagtggg cgacagggag gggaaggatc acacacacaa acctaagagt agagcaatgc	180
agaatgcctg tggcactcgg ctctaccag ctctggctct cagtggagat gaagaatggc	240
agcaggagga cagaatgcct cattgtctga aggagagcgt gttgtttctc atctccatcc	300
ccagagccct ctctttcagg caggcagaaa caaagccctt gcacccact gcactgcgca	360
acacagcaga gacgctgggt gcggaagccc tggaggcagg gagctgctac caaaggagaa	420
gaaaaggatt ccaaaaagaa aggagcccac tctaaccctg cggaagagat ggnacatgt	480
ctgctttata acccgaagaa gacagtacca gccccggaca ggctttccaa aataaangnc	540
cctgggcttg t	551

<210> 10286

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10286

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gagacagggt cttgctctgt tgcccaggct ggagtccagt cacaagctct tggctcacgg   60
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cagatgggtg ccaccaccat gccgcctgg ctagtttttt ttttttttt tttganacgg  180
agtctcgctc tgtccccag gctggagtgc agnggtgtga tctcggtca ctgtaagctc  240
cacctcccaa gttcacgcca ttcttctgcc tcagcctccc gagtagctgg gactacaggc  300
acctgccacc atgccagct aatttttttt gnatttttag tagagacggg gtttcaccgt  360
gtagccggg atggtctcaa tctcctgacc tcgagatccg cccgcctngg cctccaaaag  420
tgctgggatt acaggcgtga gccaccggcc agnccctgnc ggctagtttt tggaattttt  480
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<210> 10287

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10287

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gctagttatt aagaacaaag ggcattgtgc gtaacagggg atctaattac tgtaagccag   60
aatgattgct gaaatgtcaa aatgtaagat tgaatgaggc tatttaaca ttttagtata  120
ttttgtctta ctgaaattga taaaaaaaaa aaactggcaa tgtaactaaa tgcgtaacta  180
attacttgaa ataaaaagat tacttgaaat tcaaattaag aaaaatccat tttaaatat  240
ttgtgggtga taatctccat ctgcatccat ttatataaaa cttaaaatgc caaaaaataa  300
agaccaatat taatctcttt atttctgaat gagatgaaat cactgacatg tttgatgctt  360

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ccactattag aatataccct ttaaacacga aaagaacaac tgcaggagct ttaacatcca 420
 ttatcatggg tgaacatctt tggtacttct aaagnatca cacctatttg ggaggtnaaa 480
 aacctgaaat taaaagcttg naccaaagtc tgggtttaaa aaggcaattt aattctgcat 540
 tctggaan 548

<210> 10288

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10288

agagtttgca tgagatttcc acagcaatct agatactgct tgtcaatatg aggatagagg 60
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 catacatcac caccagcaaa cttctcgtga aagtcactct gtcctaaata catccttgca 180
 aagttaatgg caagcagtg atcatgaaca tcatccagtt caagatggct ttcagcaatg 240
 gactgcatct tcatcaggtt ctccttggtt gcctgttgct cagtaagaac ctgtggagtg 300
 gaatcttctc catgtcgaag acgggactgt acagattcca gaaagagagt gtataaactt 360
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 ttcagcagct gcatcgactt gccagccatt atgatctggc ttcaggacag gtttgaagga 480
 aggacacat gngtgctgn ctgctggang gccctggcac tggcggaact tgcactaccg 540
 tatnactcat tttt 554

<210> 10289

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10289

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cattaggaga acaaagataa tatttgatag aaagactgaa aacacatcct ttgcttttca 120
 gagaaaagac tgaatttaca ctggtactgt tagaaattct tataattagg ctagacgtat 180
 aagaagttag ggcttttgct gttgcttgta tgttttgaaa aatacattcc cctgggctag 240
 ccaacatcac tgtcctgaga cccagacctt caggagtctc ttgataaagg ctgctccgca 300
 catggtcaga aaagtcgggt cagctcatca tgtcgagact gcatggttca gtgttgccat 360
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 ctctggctctt gacggacagg ttctgggtcca ctcttcatt aaggttcttg aagcactggg 480
 ccaaggacct cctgcttggg gaagggtggt ctggttatna acttggtntt aagttactgg 540
 aaaaccttnn natggncccg gataa 565

<210> 10290

<211> 512

<212> DNA

<213> Homo sapiens

<400> 10290

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 atttacacag tcaagataca gtgttagaaa cacaaaagtg ttgagaaaaa aacttctcaa 180
 aattagtcc agacttcagg aaaatgattt ccacatggta aggccagagt ctccagtgtt 240
 ggatcatccag aagcagcttg gtacagactc cttttgccga agctgcgggt tcagagggtgc 300
 tcagaacaac aggtggattt agaaaagtgg gattctgggt ttgggtgaat ccagggtgc 360
 tggggcaccg ccagacacct gaggtcagc tcctgccagg acggcccagc gtgctccaaa 420
 ctaagccttc cttggctggt cgnccctcaga ataaatcaca tttcttgggg ancnagaagg 480
 tcncctaagn nccttgcctt tggcattcca na 512

<210> 10291

<211> 585

<212> DNA

<213> Homo sapiens

<400> 10291

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caggctataa ataagaattg accttttcgt gggtcacaca tttgttgctg aagtcttcct 60
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naacgccagg tggcgtctct gcagacagct gtgtcccgat gcccatttc tgggccctgc 180
cggaaggctg acactatgga gcttgtgctc cgtgatgccc agggcttctg tgaatggcta 240
aactgcattt tgtaattctc tttttaaaga gcttgccctt ttctggagct tccaccctct 300
tccttcatcc ctataaaaac agatctatct ttggcaggta catacactga gccagattct 360
cacactgcaa ggaggcaggg gagtgcaggg gaagcaacct ggggaagggg aaagagtgca 420
gggaggagac gactngccct tgactgnacc ncaagttgaa ctggngcta cttggaagtc 480
aagccttncg agtgaaccct tgaaaccatt catnggggct taagggtccc atgggcnnct 540
aactatccng ggcttaaggg tgaccttttg ggggtttttg gaaaa 585
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<210> 10292

<211> 459

<212> DNA

<213> Homo sapiens

<400> 10292

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gccatggcaa cacaggttta tttacacat accctggatg caaggtgggg cagggttgcg 60
gggagggaga gggagtacag tgatgtcaag agcacagggc tcctggcctt canaccagtc 120
ctcagctaca ttgctgcagg caaggccggc accagcccc aggctgagtc atgggtaaag 180
gccaagagct gaaacaagag tttctcatgc accaggcaca tttataaagc aaccatcca 240
cctggagccc aaaactgggt tgacagattc cagagaggca aggtccttga tgaccccata 300
actcccactg cccctttaac aagggactct taacacctta tgataacca aatcctaaac 360
actgttgccct ctgccgcctc ttccagacac agaaggcatg atcctgctga acactggcct 420
cgagggaact gnggntgaaa ncccngngcc cantgntca 459
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<210> 10293

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10293

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cttttttct tttttttta gacggagcct tgccttggtg cccaggctgg agtgcagtgg 60
tgcgatctca gctcactgca acctccacct cctgtattca agtgattctt cagcctcagc 120
ctcccaagta gctgggatta caggcatgcg ccactacacc cggctaattt ttgtattttt 180
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tccacctgcc tcagcctccc aaagtgctgg gattacaggt gtgagccacc gcgcctggca 300
atacttacat tttcttttct gaaaagtgag tgtgagaaga caaagcaatc ctacactaaa 360
tttattacgg aaaatgtttc ttcctggtag tttnaagtga tcacataagt cagcttatgt 420
taatngctct actatagagt atgagatant ccagagatcc cactttaagg aagacacagc 480
cttgggggct ggccaggntt actggagctn ggacctgaaa ttcctggctn naacctttac 540
tttnagnntt tgaataccan 560

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<210> 10294

<211> 571

<212> DNA

<213> Homo sapiens

<400> 10294

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agacacagtc tcgctctgtc acccaggctg gagtgcata gcgtgatctg ggctcactgc 60
aacttcacc tcattgggtc aagcaattct cctgcctcag cctcccaagt aggtgagatt 120
acaggcactt gtcaccatcc ccagctaatt tttgtatttt tagtagagaa ggggtttcac 180
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caaagtgctg ggattacagg cttgagccac cagccccggc tcccatagct gctttttgta 300
gttttctggg gatatacagg gcagactggg tcataaaatg tcctcccaaa aggggtttgt 360

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ctctcctttg aggcaggatc agtgatatta tacttccgat tgcttcaact aaatgccctt 420
 gaaacaaacc tggattctta tctttatcct gagaatcttt cctnacctgg tcatagatac 480
 angcnttttc aaacaattct tnatcenttc aacgaacaag ggccctttga acctttcttc 540
 ccaaggccta ntgggccttt ggaaaatccc c 571

<210> 10295

<211> 500

<212> DNA

<213> Homo sapiens

<400> 10295

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 acttgttccc cccattcctc acagaaggca caaatacatt atttctttcc atgtgaggag 180
 atgcgaggag aggatacaga atacaggaat cctcaaaaat acaaaaaacc cctccaaact 240
 gaatacctaa ggttatggaa aaggctaggg tggggcacag aagtcaatgg gggaacagaa 300
 agaggaacca atgaaactga gaaccaaag ggacctgaga ggccatgatg tccatgctgc 360
 tgcctctgtg cagaccccag agaaaactca ggtaaacc aa cgaaaactcc aaataagaaa 420
 gggtaggggn gcccgaagaa ttggctttgg ggcacagac caaggantgt gaatgtaatt 480
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<210> 10296

<211> 567

<212> DNA

<213> Homo sapiens

<400> 10296

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 aatcttcttg ctgcatatct cacagtattg aattctttct tggtaggttc tccatacaag 120

ttatgaagca ggataaaagt cagtcttata ttaagtcatt gtaaatacgg ccttaatttc 180
aatcaccaaa gaaatgtatt tttgttgat accatggtg cagcatgttt tattaact 240
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agtcattact tttataggac tagcctgtgt catatgtgtg atcaatattg gtttaatgca 360
gaaacaaagg cagctgggtg tccaagcaag ccacttttct gggtcagggt ttcagtggta 420
ccatagatgg ctgccagtct caatgtcact ttggcccatt tatctttata aatcatacca 480
tatagcttcg atatttccat ccnttnaact ggagggccgg ccccggggnt tacgcctgga 540
atcccagccc ttttggaggc cgaggcg 567

<210> 10297

<211> 515

<212> DNA

<213> Homo sapiens

<400> 10297

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acagccaggg aaggaggana gctgctgagg gccacgcgaa tgagctntgg ccaggagacc 120
accaagagtc agtgtaggat gcacctcgga atcatgccac taaggcatg gaggctggag 180
tggttaaggaa gctgggggtat ttccactcaa tctgggctct tattgttana naggngcctn 240
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gaactgtcct ccagtagacc aacggaaaag tgtgctggac ataaacaaca ccacactgac 420
caaaggccca naagancnt ggaacttgca accaggcgct taaaactngc acaaggtgaa 480
agnctcagga nttaaagtcc aaaatttgat gggna 515

<210> 10298

<211> 581

<212> DNA

<213> Homo sapiens

<400> 10298

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gagactgagt ctcgctctgt cgcccagact ggagtgcagt ggcacgacct ctgctcactg   60
caaactccaa ttcccagggt cacaccattc tcctgcctca gcctcccaag tagctgggac   120
tacagggtgcc tgccaccaca cccagctaatt tttttgtatt tttagtagag atggagtttc   180
accatgttag ccaggatggg ctgatctcc tgacctcatg atccgcccac cttggcctcc   240
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tgcttctctt tcaccttctg ccatgattgn aagtttctg aggcctcca gccatgctgt   420
gaactgngaa gtcaattaaa cctctttcct ttataaggta cctagtcttc gggcagtctt   480
tacagcagta tgaacctgga ttaatatcct agtaatcaat cctttnccaa gcatgggaag   540
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<210> 10299

<211> 578

<212> DNA

<213> Homo sapiens

<400> 10299

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ctggaattat ttatccaggc agaagtataa gaatggaatt aaattatctt ttgagtttct   60
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ttttttctat aggactcatg actccaggaa aatacacaaa tcccttttta gaaaaatctg   180
atgttttcac ttggtatatt tccatctctt ctttatcccc tccacacctg gagctccac   240
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aggcagaaca agtgggattg tgcatgataa catctcaagt gattttctca gtcagaagat   420
aaagcatatt ggtaagaagg gcatctacag cgaagcttgc attgagacag ttacaattgc   480
acactcattt taaaaacaaa ctggccaagn aattncngct ggcgtttaac cctgggaaga   540
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<210> 10300

<211> 463

<212> DNA

<213> Homo sapiens

<400> 10300

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aaagaaaaga gaaaccnnag ggaaatgggt tgcactggct taagaatggn ngaaggancc 420
gnccaattcc ttctctaagg ctatngaate aataccgggg gaa 463
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<210> 10301

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10301

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atttatttcc actctaattt ttgtttcccc tattctgcta gcttgggttt agttcttctt 60
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tatttttatt tatttatttt tttttgagat ggagtctcac tctgtcgtgc aggccggtat 180
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ctcagcctcc caagcagctg gaaccacagg agggtaacac cacaaccagc tgatttttgt 300
attctaggta gaggtggggc ctactacgt tccccaggct ggtcttgaac tcctgaactc 360
aagtgatcca cctgccttgg cctcccaaag tgctgggatt acccgctga gccactgcgg 420
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ccagccagtt gggcaagtgt tttctttttt ttctttntc tttntttttt ttttggaan 480
ggagnctcac tttgttgncc aagcntgaat gcatggc 517

<210> 10302

<211> 596

<212> DNA

<213> Homo sapiens

<400> 10302

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cctccctctc tctctctctg agagatgggg tctcactatc ttgcccaagc tggctcttgaa 120
ctcctgggct caaatgatcc tcctaccttg gcttcccaaa gtgctgggat taaaggtatg 180
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gactccagag aatggggctc acaagccgct ttgctatacc gcttttggac tacctgggca 480
gctgaaatgc aaatcttaag gcccacctgg ttaagcacac ttttcaaggc cttgaactgg 540
aaangaccca ncagggccct taagagcagc cgattaacca cccntggtgg tgggac 596

<210> 10303

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10303

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ttggtttcac agtgctgccc agattcccct gggctgttat ctgcatatta ctttctgtct 120
gatgggtcct ctgggtagct gatacagaca tggagttaa agagcaagag atgactaagc 180

gtgactcctg ggaaaaataa aagtgggtag aagcaggctc aggtatggaa aaccttctgg 240
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 ccacagggag ttctaggggtg tggagcctca tgttgggctg aatcagccat gccctgtgcc 360
 tttctgtgcc cacgtattgg ctggggactg cagagaaaga ccatggcctt aacttgaaag 420
 ccaaggccga ccttaaatga actaccagat gcaggttggc aatggtagct acctgcactc 480
 attgntgggg aananaaagt cttctntaag ggaaatctga aagcttttgg cctgggcttg 540
 catgnaactn tng 553

<210> 10304

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10304

ctggtcctaa cacaaatgtg aatttattgg ttgatttgat atttaaata gtacttttac 60
 aaaatcatct cagaaaatat actacattta ttaaaattcc taaaacccat tgcagaaaat 120
 attaaaccct ctaaccaacc taacactcgc tttcagaggc acttgtgatg attttcacag 180
 cttccatagt tgcaaagaac aaagaaatca tcttccaaca ggggtggaat tagataagaa 240
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 aatctacaat attcagcaaa gtattaagga aaatgaaccc aagaacctta acccctcaaa 420
 taggtttatg gatatactaa actggcaagt acaatcttta tcttaagact tgagaacggg 480
 atgcaggaaa acaaactttg gnggaatctg gaataaggnc ttaagctggg caaactaggn 540
 gngnaancct ggatgggttaa 560

<210> 10305

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10305

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ctttctttct ttttttcttt tcttttcttt tttttttttt tttgagagng tctcactctg   60
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caagcgattc tcctgcctca gtctcccaag tagctgggac tacagccatg ngccaccaca  180
cccaattaat ttttgggttt ttattanaga cggggcttca ccatgttggc caggatggtc  240
ttgaactcct gaccttgtga tccgcccacc ttggcctccc aaagngctgg gattacaggc  300
cttagccacc gngcccagcc aacacatttc ttatacaaca tggttttgag ttattttacc  360
tacaaccaac tccagctggg ttaatgngta gcttacagaa ttgaaccac ttttttcaga  420
cttggctacc ttttctacaa gggaaaaaag gcattttaca agacacagaa gcccctaagt  480
ttggaaatct ctgncaaaaa aggggganaa naaagacttt ttcaaggnc cgaaggggga  540
actatgggga aaggattaac ccccccaa                                     568

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<210> 10306

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10306

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gttttgctaa actaagattt ccagaatatt cttgattagt caatttctca ggaactaatg   60
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ggccctcact gagcttccag taatgttccg tggaagctgt gtgactttag gtgagacact  180
cgggctgccc cagagatctg gaacaagtcc ctcttcacag cgacagcatg atgcagggca  240
ggcaccagca aagaagggtg tggaacttt taaaaactct gtttggggtt acctgactgc  300
accaggttat atctaaatgg ccattcccca aaagttttta agtggtgaaa ctggtaagtt  360
ctgtaatttg ctttcaaate atcccaaaag tggtcatttt ctctacaatt ctatacatac  420
ttctgtacca gacatgggca gtacaggatt ttttaatcca cctanggaag tcccctgtgg  480
tcaggaaatg gcatatttca cccttaaaag ggccctcttg ctctttgntg ggaacttttn  540
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<210> 10307

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10307

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ctcattaaca caaatattta ttgatactat ttatacagta aattaggttg aatgtgaagt 60
tttggatagc ctgaattcac cattttcttg tgcacaaatg ggcatttttc tcatttaca 120
atgggcattt ctctttggca tccattaggt atttgcccag atattggcct ctgtcaaata 180
ttttttaaaa atcaacctag tttctattaa acaaaactaa aagtgattct atggagagtg 240
attgtatgat taccaaacac atctgatgtt aaatgtcatt aaagtgctgt ttgatgatct 300
ctgcggtttg tgctaattaa gacagagagg gctgggattt tataaatccc aagagtctta 360
tctgaacagt ctgcatataa aagttgnttt ttagcctggg gaagggtatc catgaagccg 420
gggacttntg gcattctggc cttgctgggc aagtaccagn catntttcca acggnatctt 480
catgctccat aggtttanga gctggcaagg atctggnaac aggcttggca agtttgctgc 540
aaggcncctgg tat 553
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<210> 10308

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10308

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gaaccaatca atcactggag acacacagac tccacctgta tcaaacgagg ataccagcca 60
cccanacagc ccagtcacca gctccatcca tcttgcaatc cctcctccac agcacagcac 120
agcccanacg ctgcctntgg gaaggaagcc tgaggccana gttgctgagc cnttgggaaa 180
atctggaaat ttggtttccc caagatagac tccacctcct ntggaaagat gctgngctcc 240
tgacagggct ttgtctccct gggaaggaat ccatgtcttg ggaaggctct gcatcccagg 300
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aaaggctcca cacctgcagg agggactcct tggctctgag ggactctgtg cctgcatagg 360
ctccagtcct taanaaggac tccatgatgc angggggact ccaggccctt aggaagttn 420
catgtcctgg gaaaggnttc caggteccca ggcttnggc caanatcccc agggcgaaaa 480
actgggtcca aacaggttcc anagnccatg ttgnncaact tgaaaaccct gggnaggn 538

<210> 10309

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10309

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ttgggatgct acttctaaaa aaattgttgg ccatttttca gaatatacctt ttggttttaa 120
atactgggtca ggaaaaacaa atgatgtaaa aatacgtgaa taattttcta ttacagaaat 180
gaaaaactga tttgcatcta aaagtgaag aggtgaagta atttaaccct ttcaccagac 240
gatatggcaa tatacaatat attgcttgag ctgtttgaga aggctgtgat gtatttttgt 300
attgacatag aaaattataa attacattga attagtatcc ataataccta tatatataca 360
caaaccagtt ctaaaaaaaaa tacactgggt taaatttatg agtgaaaacc tcacaaggtc 420
agtaaacaat tagcatgctt cgggccagat tttggattct attttaaaat ctagcctgta 480
aaatgaacca ctctaattca ntagcagccg agccttttca ctgacttgcc nataggatta 540
ttaggg 547

<210> 10310

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10310

ctttcaacaa ggtcttggtc tgtcaccag ccaggagtgc agtggcacga tcaactgctca 60

ctgcagcttt gacctcccag gctcaggtga tcctcccacc tcagcctccc gagtagctgg 120
gactacaggc atgcaccacc acgtccagct aatTTTTTgt actTTTTgtg gagacgggggt 180
ttcaccatgt tgcacaggct ggtctcagac tcctgggctc aagctatccg cctgcttcgg 240
cctcccaaag tgctgggatt acaactggga gccaccgtgc ccggcccag atctctcctt 300
taacaagaag ttttttgcct tgaaaatggt tgcaaaaagc gtttcttgat tctgtcacc 360
tgctcccaaa gcaacacgtg actacttgca actcantaaa gaagaagtgg ttgaagtgg 420
tccttagccc ttaaaaaatc attaaataat cctctaggng gatTTTtaac actagcaaga 480
aaagctaagg gaaatggcaa gaaaggangc gggactttcc angttgggcc acgaaatacg 540
ggntggcttt cctttanacn aananggg 568

<210> 10311

<211> 531

<212> DNA

<213> Homo sapiens

<400> 10311

aaagtctaaa attatTTTT taatgagaag ttatTTTTTT cacaagcctc ctgaaaaata 60
gcgttataat gccaccattc aattacacgg taagacagta ataccccacc tttctatgga 120
gcccttggag gtgccaggca tgtgctaatt tgaggTTTat ctcatTgaat cctcacagca 180
atcctaagaa ggagatgcta tcattacccc cagTTTTcag atgaggaaac cttcagctca 240
gagaggTgaa gtgacttgcc cagggtcaca cagccagtaa gtgatgaaac tgtgtggctg 300
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ctggatgaca ggggtcgcgc tgttcagagg actgggggcc actcccatgg ctgcagatcg 420
aactctacaa tcaccttcaa aagngcctgg gcctttgcta tgcctntggc caccttctgn 480
tgnttctggc atngnctgnt tactggcttc accagncctt ttctacttcc t 531

<210> 10312

<211> 571

<212> DNA

<213> Homo sapiens

<400> 10312

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aagataagtc ttttgaaaaa tagtagaaat agctgaaagg caagttcagt gtttgacaat   60
cttcaggggc ttgagggatt ataagtacct catagtctaa atttgagcat attctttttg  120
gccattttga tagggtttgg ctgtgtcccc acccaaatct catcttgact tgtggctccc  180
acagttccct cgtgttgtgg gagggacccg gtgggaggtg gttgaattgt aggggggtggg  240
tctttcccat gctgttctca tggatgatgaa tgagtctcag gagatctgat gattttgtag  300
gggagagttt ccctgcatca gctctcttcc cttgtctgct accatatgag acgtgccttt  360
aaccttccac catgattgtg aggcctcccc agcctcatgg aactgtgagt ccattaaaca  420
tctttctttt gtaaattgcc cantcttggg taccgtcttt atcagcacat gaaaaggac  480
taatatcatt tattctgaac atacttactg gacattnaat aggnnggaaa actctggctg  540
ggggnnnaat ttgaatgaan ctaatccttg c                                   571

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<210> 10313

<211> 567

<212> DNA

<213> Homo sapiens

<400> 10313

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gcccttttca ttttctttta atgtccagag ctttcagtgt tgtcatactt taattcaaaa   60
gtcaacataa aagtttaata catatagtaa gctgaaaagt gttagtgaat tgagctgagc  120
tttgcttttc caaacatggt tccaaaagtt tatttttaaa cacacacata gtgtcagata  180
caaacgcctt ttaaccactg tgggtgggaa gagtaactg attgcttcca atgatcatct  240
cttccctctg cgtccactgt tctcagagtc tcaggagagta tgagaggatg tgtctcttcc  300
tttacttccc tgtttgttgt aatgagtcct tcgatgagag taattacgtg accgaatttt  360
ccataactat ttgntgatta ttaaagtttt gcagtggctg gntttcctaa tggggncctta  420
caaccaagca tttcttctaa attgggtgng gcanggtcat tcacattaaa tataccggtg  480
ttaattanch tcttcttctc actactccga gccttaaaca ggctgnttaa ggcgttttct  540

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gnncatcaga agatatncct cttacct

567

<210> 10314

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10314

gagaaggagt ctcactctgt cgcccaggct ggagtgcagt ggtgcatct cggtcactg	60
caacctctgc ctcccggtt caagccattc tcctgcctca gcctctggag tagctgggat	120
tacagacgtg ccaccacgcc tggctaattg ttgtattatt agtagagatg gggtttcacc	180
atgttggcca ggctggcttc aaactcctga cctcaggatga tccaccacc tcggcctccc	240
aaagtgcctgg agttacaggc gtgagccgcc gtgcctggct gattatgctt ttttaaaaca	300
gaaatgaagc atttatcttt ttctctctgc ctaaccctc cagaattcaa aaattctttt	360
tttgangggg tgtggggagt tgggggacgg gagtttggtc tgnccctgg gctggagtac	420
aatggcacga atcttagcac atnacaacct tcaacttccg aagtcaagt atctcctggc	480
tancctccca agnncctggga atacaggcac ctgccaccac ggntaantnt tttttttttt	540
ttttgcattt ttcaatnaaa a	561

<210> 10315

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10315

aaacttttat ctttgtaaac aacgcacatg aaccagatgt atttctcagc tttaacacagg	60
ggaaaagggg aattaaaaaa atacgcaatt gccagcaaa tgcaaatgtt taaaaaggaa	120
acacggagaa ccatgggaat ggaacaacag acagaacttc aaacaatgag agaaaaaacg	180
aacaaaacaa caagagaaaa cacaacagat ctgcaatcca ccaatcgctt tttcagctga	240

atgggggtta ctttaagacc agaagttaaa gtcactgctg ctggtaggct gcctaattcc 300
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 gccattctgt gatgggggca cctagtgggg acttttcttt aagttcaccg attactttta 420
 acagcatagc tccctntccc agtccttgct ggtgggaacg aacacgttta tgagaaccac 480
 gtcttccagt tctttaaaga gaacctgggg ctgggtattg acagatatcc gntgggtgggg 540
 nttatcgat tnggttaant ttataacc 568

<210> 10316

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10316

aaaagcttat ttgacttgt tgcccgggat caattgcaaa agcgcttctg ttgagaaagg 60
 acagttcagc caaactcagg ctggttttta gaaacagaac tggaggaaaa aaccagaaaa 120
 acataaggca ctgggcaa at gtgacgtagg ctgggatgaa accattctc ccagagccgg 180
 tctctccac agcacaagc tgctcctcat gcagccagct ggctgagggc ccggagtgtg 240
 tccacagagg gaggagcggg gctggggagg ggnagagggg aggctggctc cccgaaatgt 300
 gacctgagga ctgatctgag ctgcagtgag cactttttac ccaggggctg agcttcctgg 360
 gctcctgcga catggatgga gctctccctg ccgtgctgcc agctcaggag cctgaagccc 420
 aagggcgcgc ttctgtacct agcatncant ccctgncagg gccttttgag acccgatcct 480
 ttggtcatct tctcctggtc agcccacccc tggcaaaact ngngatccct ttanatnacc 540
 ttcctggtt anccttant t 561

<210> 10317

<211> 567

<212> DNA

<213> Homo sapiens

<400> 10317

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cttttttccc agtgaattat ttttttattt tgtagagacg gggctctccct gtgataccca   60
ggctggctctt gaactcctcg gctcaagcgc tcctcccacc tcggcctccc aaagttcttg   120
gattacaggt gtgagctacc acgtctggcc tgggataact cattgtaaaa ctggtgaaga   180
cctgggacct tcccagtaga caatgggaca gagtgattga caggatgagt tctggagtag   240
atggcagaaa tgtacagaga agtctcccag agaaaactaa ctggctggaa acagagcctc   300
tcctttcttc tttagagagga tgagagtgtc actgtcttgg atgcataga tcccagacc   360
caaccagtcc tgcaggactt ggccttgga ttccagctgc tgctgctttt taggaagccc   420
ctgctggctt caatctgctg cttcagaccc aggatgaaac ttgttggggg gatggcatan   480
gcgtaacttc cancattagg gattctttac gaaaacctgg atctcggang ggatggctcc   540
accnaaanat ntnaatgtgg gaaaaaa                                     567

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<210> 10318

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10318

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agacagagtc tctctctgtt acccaggctt taaggttttt ggtagacaca gggctctcact   60
atgttgccca gtctggtttc aagctcctgg cctcaaatga tcctcctgtc tcagcctccc   120
aaagtactca tattacaggc atgagccacc atgccctgct gtaaattggt ttgaacagag   180
ggtgaaatag gcttagggag gaacatactg agtctgaaat agaacatcca ggtggaggat   240
cagccatcag tgagagctgc acaaaggtea tgattagagc attgactcag cttagagaag   300
ggagtcagag ttcagacagc cacaggcaat tcctagagta agtgaagaga acaattttga   360
aaggcacctg ctgaagaaaa gcaattattc attcctaaaa ggcactggcc gaccttnac   420
attgaacatc agaaaaagga cacttctgna acaaggcttc tgnngggcca aagaaaaact   480
cttttcnggt cctaaaaaat ttcaaaaaac ccgaccnctt taatgggaag cttcatttaa   540
aggccttntt aaaanaacgt tccggaantt ggaa                                     574

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<210> 10319

<211> 465

<212> DNA

<213> Homo sapiens

<400> 10319

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aaaagaataa aatttattgt actctcctcg cccaggggtg cccctgggaa agcctgaggc   60
tacttgtagc cgttggcctt gngcttcggc aagaaggcga agctgggggg cactggccca  120
aggagcatct cgctgatgcg gatccagtcg gctgccttct ggctggccat cagcgtctcc  180
aggtagtcgc ggcccaggta gtagggcggc cgctcgttga tcctctgngg gagccgntcc  240
agcagcccca cgggcacgta ccggcacagg aaggacagcc actcgagcag aaagcgccgg  300
gtcttctcca cgccctgcgt gtccgagccc cagtgtctca ggccgtantt ggtgaagtcc  360
cgcaggatgt ccaggccgct cggacgacga gatgtcccan tgccgntgnt ccttgatctc  420
cgggaaaagc cncnggttga gcaaggcgcc acgggcnaat atgan                    465

```

<210> 10320

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10320

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gaagaaataa aactgccttt atttgcagat aacaatcaca tacatagaaa atcctaaggg   60
atttacaaaa aaagctgcta aaactaataa ggagatttaa cagtattgca ggacacaaag  120
catttctgta tcctaacaaa gaataattaa aaactggaat ttaaaaaatt atttaggctg  180
ggcatggtgg ctcacaccta taatcccagc actttgggag gctgaggtgg gaggattgcg  240
tgaagccagg agtttgagac cagcctgggc aacaaagcga gaccctgtcc acacaaaaaa  300
caaacaaagc caggcatggt gggatatgtc ctgtaatccc agctacttgg aaagctgagg  360
caggagccca ggaaagctga gacttgaaa gctaagacct tgagcccagg aattcaaggc  420
ttgcagtgag ctatgagcat gccactgnac tctanaatga gtggccgaaa aaataaacct  480

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ctatccctga ggggtactatg atgcatacnt gactggnttt gggaaaaact ttaacccttt 540
ttcccnnggt ttatcctacc taacaccan 569

<210> 10321

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10321

ggcatttgag accgttgatt tttaatattt tcttaaaaaa atacaaagga aattaactct 60
gtaggtcaat acaactcagg gaaagaggga aaaatggaat ttcagagcaa aggttggtta 120
ggttatcaca ttcccacact cctaataccc acaaaacaag aatttcactc catgacacag 180
aggaacattg aatggtagct cagaaatgtt gatagctgag gtactgaaac taacaaaagg 240
attttggttg tccttgatta ttctgtcctg tgatgaataa aatctacact aaaggacagg 300
taaggaaaac ttatagcaga aaaaagacta gatgtaccaaa acacagcagt acaaaccact 360
ccttggcaga catgtgcttc taaaagaatg ggggcagtaa tcaggtagct gaactactag 420
gctactgnca ctcccagccc atcccgaatt aaatagnngg gaagggtaat agngtagtaa 480
gtattgatcc aacaaagaaa ggntttaccc ccattcaagg gaacattggc atggnttnat 540
naaccctggc ngggaataan aagcctgga 569

<210> 10322

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10322

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gcaggggctt ccctagcttc atatcccca ggcccctgcg cctctggaat gtaccaacaa 120
ggggcagggg tttcaggggg ctacgcctct tcatggggca ggcctcagcc ctgggtttgt 180

cacagtctgg ccttgaatit gcctttggcc ttgaccttcc gacaggtgct aggaattgtt 240
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 gagcaggaac ctttcttggc ttcaggatgc tgggtgccac cttgaaatca aagggttcgg 360
 tgggagggaa aatgaagacc ttaaccctg ggtaaaagcc ttaaagggt tgcctgtggg 420
 ccacagggcc ttaatgccac caacttggtt ggcttgcnc tgaagacctg gcccttgggg 480
 tcgaatcatg gggaanaagg cacttgncc ttgnttgaa gcttgggaaa tgnnacggct 540
 ttcccaaaaa ccttnttgg 559

<210> 10323

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10323

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 ggaggagtca acatgagaga gagttgctca cttgagatgg aggcgggcat gtggtctgag 120
 aatgtgccct ggccaacagc cagcaagaaa acagggacct cagtcctaca gccaaaagga 180
 agtgcattct gctaacgaca tgacagagcc tggaagtggg tttttgccag agcctccaga 240
 aagaaataca caggggctga caccctgatt ccagccttgt gctgtttgct atctgtttcc 300
 tatctgatac tctttaccag gcaggcttgc tgggtttctc aacctacagc tagtaaacia 360
 gtgttgtttc atgctgctaa gctagtggta gtctattaca gagcaatccc aaaccatccc 420
 caccacacia actggccaag taagagatct tcttngact taataaacat accttaatat 480
 atgcttatcc tgattaacat aaattccata tatatatata tatgaatgac agcttntaaa 540
 agaagtcnc nttctntntc aagg 565

<210> 10324

<211> 474

<212> DNA

<213> Homo sapiens

<400> 10324

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agcagccttt cctgctccca ctttaaagat ccctgggtggg ccatgcacct ccaagatggg   60
caggggagct acacccattg ttacaaatag gaggcacag actctgtatt taaaaacaga  120
actgtgcaat gagaatgctt taatcatcac ccacacagac gagcggaagc tacagacaga  180
gaaccactac ggatgggtgcc tggaacagag gtgagaatgg cccaaaactc tgcctccggg  240
aaaggtgcca agtttacagg acttatcgtg gtgccctcac cagaccctc ctncttctc  300
tctcctcctc ctcctcctcc gtggccgctg gcggctcctg catctcctct ggggaagcct  360
gaggccggct cgggtaactt ctgctgcctg agacagtcac acgtgcttgg gacctttnac  420
ctgangtctn tgggtgctga actggantgg angtanctag gcntgggaaa aaaa      474

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<210> 10325

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10325

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ggagagacgg ggtctcgctc tgttgcttag gctggctctg agctcctgac ctccagcaat   60
cctcctgcct tggtttccca aagtgctgga attacaggca tgagccactg tgctcagccc  120
ctttgaaaat attaattctg acttcctata attcccttct atctactcat gcaatacaat  180
tatattttct aatatactta aaaattagaa aattataatc agagtacaga tgtttctacc  240
agattaaagc tttaaattca acgtttaata cctaagcttt taacctgtct tcagcaattt  300
caaaaagcta atacaaatga tcaacaactt gtatatatat ttactagaa gtgtactcta  360
ccatttctag aatacgtggt tagctttatg acataatttc aaggacgtat tagaccccca  420
aatattttaa aaagcngaaa ggacctatat nggatgattn aaaatctcat tatectactt  480
cttgaagagc taaaaaaaaa ncaaccaaac nentaccccc caagtnttta acatttatcc  540
acngt                                           545

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<210> 10326

<211> 442

<212> DNA

<213> Homo sapiens

<400> 10326

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caggtttcaa aatgtacagc cagggcatgt gctcatttat tagggctgac tctccgtgtc 60
cgcttcctgg gaaagaaaat ccctgtgaca tgaaccgatg aaggacaga agctatcaca 120
gatgctacag ggctcagaga ggggccgggg caatctacac tacagaagta aaagcaacgt 180
aaaatgtttc tgggtttcct ttcccttcac tcaaaaccac tatttcctta gttctatcaa 240
agtacgtaag gggcataaaa tagactcagg aactcggggc taaatcatcc aaaaatggag 300
ccaaggctct aactagaaac tgtctctgtc gtccctgttg gcctcaaac cccgaggtaa 360
aaggctggtc tcggnctctc ccaggcccc tggntccan nacagtgcc cgctcctntgn 420
gttcatcatc atcgnttttt aa 442
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<210> 10327

<211> 580

<212> DNA

<213> Homo sapiens

<400> 10327

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acaggagcgc atcatcatgc ctggctaatt tttgtatitt cagtagagac ggggtttcag 180
tatgttgccc aggctgacct cgaactccgg acctcaagta atccaccgc tttggcctcc 240
caaagcactg ggattataag catgagccac ctgccagct catgctgatt taaagggaca 300
aggcagcgag aggcagaagc agagaatcat cctcctcaag cccaggccc aggccaatgg 360
cgctgccttg gggacttgcc ggccgggacc accacaaagg gtcctgcgaa ggctgcagcc 420
gcggctgcat tacctctggc ctgctgcca ggtccagcac ggntgcgccc gccgcatcat 480
gggaaccccc cggcgggccc tggctggtga ngatgatccg ttggnant tggcaaatg 540
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580

<210> 10328

<211> 432

<212> DNA

<213> Homo sapiens

<400> 10328

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cacaggcgtg caccaccatg cccggctaac ctttgcactt ctagtggaga cgggggtttc 180
accacgtgg tcaggctggg ctggaactcc tgacctcgtg atctgccac ctggcctct 240
cacgccacca tgcccggccc tgttcggttac ttacaaaaac ttctccctct ctttgtgctt 300
actagcattt gaagaaatcc ctgcttctta ctgcctgccc ctcaaaacaa caaaaggggc 360
caggtatggt ggctcatgcc tgtaatccca acactttggg gaggctnang ngggnggatc 420
acctgangnt gn 432

<210> 10329

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10329

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cgatgcattg aagtccagng acaaacaaaa cacagggact ntgccctcct ggagccgaca 120
tctggtgagg gagagacnca nactntanac agatatttcc aaatagcagg taagngctat 180
aaacaaaggg aaacagggtg atgggataga gtgacagggg gtgggatgag ttgctatatt 240
anatgaagng gtccaggagg gcttccctga ggagnggca tctggtctga gggctagaga 300
atgtgaaagc agctgtcacc tganagctgg agaaagaaca ttccaggag agggagcatc 360

aagacccaaa gccctgaggc aaaaacaagc ttgccatggt ccaggaacag tgaaaggaca 420
 tccattgacc taatctcaaa agcttnttgn ccaaagacaa gcaaagggga cccagttccc 480
 ttgggggggtt ccaaangctc tgtgcctgac cccanaggca nangntcctt ttttcaggct 540
 ggc 543

<210> 10330

<211> 586

<212> DNA

<213> Homo sapiens

<400> 10330

gacagagtct cactctgttg tcaggctgca gtacagtggg gcgatctcgg ctcatgcaac 60
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 ctacaggcat gcgccacat gccagctaa ttcttgcaatt tttagtagag acagggtttc 180
 accatgttgg ccaggatggg ctctatctct tgacctcatg atccgcctgc cttggcctcc 240
 taagggtgctg ggattacagg catgagccac tgcgcctggc gagaaccacg actttttaaa 300
 ggaaaccttt tctcatgtct ttattattca tttgttttga aaatatcatc aagattaagg 360
 atcagctaag aaacagaata atttacctt tacatttcat aattttatct atttttgctt 420
 ataggggaga cttgagatta aacgactccc attggtacat ttttaciaat attttggttt 480
 caagaaaagc atgtccattt tgancttcc atgnggnaat tcttgagaag cctaaggatc 540
 tggcttcaac acaangnttc tggggcataa agggggcntt tggcaa 586

<210> 10331

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10331

ggcttttctgg gtcttttatt tgtacctatg tgtctgtcac accatgaatg tacctgggga 60

aatcaactga ccacctgaa catttcacgc agtcaggga caggtgagga aagaaataaa 120
 taagtgattc taatgctgcc taggtcacc tcaacccccca ttactggca caattgggtg 180
 gagagaaggg aaggggtatg attgtcctga tggctcaggg ttgcaggagg ttcagagggg 240
 aaggaggaaa ggccaggctg gaggtgggc tgtagcact tccctnccac agttcaaacg 300
 gntcactctg ggctcaggtt tgccatggct tcctttgggc caaacatagg ccctgtcctt 360
 agtcctgtgc cctgtttgac ttttggccag gaggcctttt tgtgctgctg ctgttgcagg 420
 gctagctgca tgcccatat gctcantggc cccatgtagg ccantgagcg gnacactcgc 480
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 aanc 544

<210> 10332

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10332

gaaggccaaa tatctttatt gcctccctcc catccccaat tcctgttcc cccaccaag 60
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 tatgctactg gccccgaggc aggcgagggt aggaagaacc ggggtgtccg cctttagagc 180
 gctcccagcg aacacagtcc cgagtcctgc ggggtggggg cccctgccag ctgccaggcc 240
 ccttctcttg tggaggacct tcaactcctt ggctatgggg ttctggcttt aggtccatgg 300
 gtccttgag gggccccctca ggaggtggca gtccctgggt gtcacgggta cctttagggg 360
 cgtggcactc cctccctttt ggggtgcctcc gtccgggctg tcgccaggga cctcgactgg 420
 gcttgggggg atctagcata gctttctggg tttcgcccaa cctttgctga ttgacctgg 480
 tccttgaat cttctnaata tgtgctggtc gcacagcna agaagtggca aatggattgg 540
 ccgcttg 547

<210> 10333

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10333

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gagtgttttc agtattttat taacaaatga gctggcaaga ggacaagtga tctagtagta 60
tcacccccac cctcatggag cagccaccac aagcccacca tgggtgggggg tgtccaacat 120
gctctgctgg ccagttccc agccgatccc ctgagtcttg gcgcccgttt agtcaccctt 180
cagctgcttg ggaggcagga agagacttcc cctcttcacg aggtaaggga gacaaaagca 240
gccatttgga tgccagggcc acaggggcaa gccatgccct atttcttttg agggacagaa 300
tcacttcttc ccaaggccag aactgttagc ccatgggtact cagccttcta gaggagggtg 360
gcctaacaga ggagaagccc tgagtgggaag cagcattttg aaggcatcgg cattcttaga 420
ccagcttaaa actgagggca ttctctatct ttggcagcag acagtgagac ttcaggatta 480
aaattaaaag cccgnggngc atcctttctt gcattacttt ccacaaaacc ttggaggagt 540
caaatccc                                     548
    
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<210> 10334

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10334

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ctcctaaaat tttttattac tttcagaagc aatactgttg canggtatca acaaccacac 60
tatgtacca aataaaatga atgtcagaaa taaaaatact gtcacaaaga agcaccctt 120
attggaagat gtattgaaga agtcttatta cactgaaatt ttatggcaca gatcataaaa 180
tcagagtctc ttcacacata ataacaattc atccattttg aaatgagtaa cttctccttt 240
gtagtgttgc tagtataaaa aaaggtacaa gttcaaaata tgctggcaac atacaaaagt 300
ggccaatagt tttggtcttt gagagtacac cctgcagttt aacaaagact ggctttgaat 360
cttcactca aaagcacact tctcttccaa aaagatgact gcccaactga tgccatccca 420
gagagcagat atcccaacca ccaacttgaa atggctgaac aaagaaaact acccaattac 480
    
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tttaaagatg gggaagcaaa atcaatggcn anggttttaa aatcntagga attttaaaat 540
caat 544

<210> 10335

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10335

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ggagtgcaat gacgtgatct tggtcactg caacctccgc ctcccagggt caatcaattc 120
tcctgcctca gcctcccaag tagctgggat tataggcgcc cgccaccacg cccagctagt 180
ttttttgtat ttttagtaga gatgaggttt caccatgttg gccaggctgg tctggaactc 240
ctgacctcag gtgatccacc cgcctcggcc tcccaaagtg ctgggattat aggcggtgagc 300
caccgtgccc gaccacagct gttttcttct accctaccac tggcgcttgc ctttgaaatc 360
tttcctgggg gaagccaaga accctctcag gctaagctcc agtgtcgggg cttgcccacc 420
ctacatcaag acccactaaa gtcagtggga ttctagagag cttaagtgt cctacgtaaa 480
ggtacaaaaa atcaccgnga tgaccccaa tgtaactatc caaaagggga gacaggaagg 540
ggtntaagct 550

<210> 10336

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10336

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agagggagcc aggaaaggct ccccgctggc ctctggagtc caggagcctt aggaaggctg 120
aaagccagcc ctgaccagca ggcttagttg tcctgagaag agccagttag gccacctggt 180

ccagttcacc aggtttccca gggaagcaca ggcattctctg ggtccccgag cacagtgcca 240
 gggaagacac ccccaatccc catctgaaca ggccgagggc agcatgggaa aggctcagac 300
 tgcaggttca tcccgcagga tggttaaggac acgtgctcct ccctcgcaga gcaggctgtg 360
 cacagccccg cacagggcca gccagggcgg ccccttgccg tgtcagcgct taccangggg 420
 aggagttcaa ccatcaggac cttttccaag tggatcttnt tggccagca caagccactt 480
 gcactttgan ggcccgccag ggtcttgaac ttctgggtgc ttgagtagac aaccactggg 540
 ggctcatcan gctccgntnt acc 563

<210> 10337

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10337

ataacgaaag gagatttatt tggtttacgg ttctgcagac tgnacaggaa gcacagtgcc 60
 agcgtctgct tntgggtgagg gcttttaggtt aattccattt atggcagaag gagaagggga 120
 gctggcatgt gcagagacca aatgacaaga aagagagagg gaaggagct tacaggtttt 180
 tgtttttgaa agcaaaaaca aaaaacaaac aaacaaaaac ccaaccaaac aatagtactc 240
 cttccactnt atgctaacgg aagactntn acaccagcca gttaaacaat gaaattntta 300
 aacacncagc ctgctggggc tgcattgcaga gctaaaatgc aggtgtgctg acttcttgga 360
 gctggagcag aggaaaacat naaaaagcat atctggaatc tatcacagct ttctttctta 420
 agcaaataaa aatgcaaatt aggtttcata acccccatit caatttatca aactttttct 480
 ggaagaaatt tcatttaatt atggattncc ttaccaggga ataaaacntt tttacaaacc 540
 cttttnangg nttncg 556

<210> 10338

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10338

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gggaaggaca tttttatatt ccctaattctt caggcaacct caccaagctg gaggtcacat   60
gtagctgagt gtgaaaccaa gaaaaatagc aagcttcaaa agtactgtgc gttgtatttt  120
ttcattctct ggcaggctgg gagtccaagg tcagtctagg caggagggtt gcttggccta  180
agcagtcaca caattttcac cgtcttgagc atatctgaca agacatacgt gtcaccccaa  240
ccccccag gcttctcag ggtccgctcc aaagcctggg ctgtttctag gagctctggt  300
gtggcaagtt ttgtctcagg gtgcagctga cagaacagga tctcattcac ttcaccctca  360
attcgccgga catataggag ggggaacact gccttgagcc cagccagcac tgagtctttt  420
agccccaagt ctggcacac aaggttgaga ataaaacacc ttcaggagtc aagatctttt  480
aacctttgta gaaaaaatg nttcccaaat gctggggccg acactaattc cagngttggg  540
ccctactggc aacat                                                    555

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<210> 10339

<211> 487

<212> DNA

<213> Homo sapiens

<400> 10339

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ggctgtgtgt tccgtttctt tattacctga gcccatccgg accctnaaga caactggagc   60
ccaccctgcc ctggaaggct canctccct gcttgaggac nccgcacacc tgttccagga  120
cgtgacacag gctntgggtc ttgggcgtcc tgctggccaa ggagatctta agcttgtcga  180
ggtaggtgtg ctcttggtc cagggttcct ggagcctnac gaggtcaggg gaacccttgt  240
anaactccac cagcagcatc atntcgtgaa ggatgtcatt ggtcaggaag ctgtcctgga  300
cgtaggccat ntncacatnc atggggatgc catagtcact gggcctttgc tcgggaggag  360
gcatnacca gaaaggcgag atcttggact cggggcctgg gttgccaaaa tagtaaaggg  420
gagcananca gggccaaggc anggcttga aaccatttgn tgnaccctg aaancncaac  480
ttggtaa                                                    487

```

<210> 10340

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10340

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acagagttta caaataagca gttttathtt caaaagtaca tagtaagtcc agactgggct 60
attgccaaag aactaatctt tagtctactt caacatgtta catggtattc ctgactctac 120
agactatcag catctgtgga ggtagctcc taaaggtccc aaagaacagg aaacatgcag 180
gaataaagga ctctcatga agagcaggtg ggagcgagtg ggcaggcctg tatcttctca 240
gcaaagtaag gattgagtat agagagctgt ttgtcttaac tgggcttccc tgaagaatct 300
gagccaaact ggaagaaacc agcctcattt ccagtgttga gatgttagct gtacagtggc 360
tgtacaactg cagagtttat ttatagaatt agaaataatt ttttaaaatt ttaaaagggt 420
ttgtgtaatc attaaccaga agatgatatt cacaaattct ggtaaaaaat ttgactcttc 480
actatcacca tatcaacnng gaaaccaggg ccatgccanc caggaggagac tgncttanct 540
gccattangg aagttgnccc 560
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<210> 10341

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10341

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catgtacaaa gccaatcatt tatttagcac taaaatcaaa ttataaaaac aacaattcca 60
tcttaaaaca ggcattttta aagcatttct gtggttctaa gtttgcatca agacagccta 120
agtttgcatc tgcacaatct ggatacccaa atccctctat aatttccaaa gacaaagaca 180
atttttgcta gttgtgaggt gtcaggggga agcagtgatg ccctgcaaac agtctaattg 240
gcccaggga cctgttttct ttctcaacct gaggttgcac ccttgatctc caggaaaaga 300
gattagtgct tgcttaacca gggttcctagt aaatgggtcag ggatcttcta tgcaataatg 360
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ttgcaaaagt tactgaagag gaaaaaaaaag cacaacggag gcttcttgcc catttacact 420
 tgcaatgtta gattttgaaa acagggccct tcatagtcag cacccaagtc ctggactttc 480
 agatgtaatg cangctggnt aacaagccct taatactaca ttggaatttc naacgacttc 540
 ctggacagtt ttttaaan 558

<210> 10342

<211> 528

<212> DNA

<213> Homo sapiens

<400> 10342

aaatacaaag aaaattttat ttgtatatca aagactctaa gaaatgatga cataagggtta 60
 acagagttga tgtcaagaca aataggtttg aagttataga tgataaatca ctttgtctta 120
 ctgaaccttc ccttgattac gttagagagc atccctggta tgctcccagt tgaatcttaa 180
 gcatgatgtg tgtccgggtg atataatcgt aattcctttc tgtaatcct cgttctctct 240
 cttttttttc tttttcttct ttttctctgg actagcaatt gctgtgctgg tacatggttc 300
 ttctcagaa agtggttctt ccttaatgtg tttcttttta ccccttttct tcttcttctt 360
 cacagatgtt tcttcttctt ctgccacttt ttcttcttcc tcttcttcaa ctttaacttt 420
 aatcttggct ttttnnggct ttcttttcaa gtaatttcat ccctctttat ctaccnggtn 480
 ctaattttgc gtttttttaa acaggttggn angtgtngga gtcacca 528

<210> 10343

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10343

aaatacaaat gttttattac gcaaaccaca tgtaggtccc aggctcagg gcttacccta 60
 cagccccac tggtccttgg ctccaagcct gctccttgcc cttgccacc ctggaaagcc 120

aggatctcct atggagtgtg taggtgtcca cgagtgtacc ggtgtgcggg cctcctgggc 180
 tgcaggcact caggcatggt ggcagcattg agggaaagac aggtgttggg gagcggggtc 240
 cccacctgcc caggctcagg agtcacaggg gtctgcacag tcctttctgc tgtggaacac 300
 gtgatagatg ctggtcgggg ggaacatagc aacagcgccg agcagagagc ccacctggat 360
 ggccacgccg gctgccagca atgccggccg gccccgccat gcagcaggga gctggctgca 420
 ccttacgtag gagaacacgc caagacacag caccacacg agcaccacg aaggaccacc 480
 cccggcgang ggcccaccaa gggccggcaa gggcttaagg aatgcancgn catnanggaa 540
 nccccacaan aaaac 555

<210> 10344

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10344

gagacagagt cttgctctgt cgcccaggct ggaatgcagt ggcacgatct tggctcactg 60
 taacctctgc ctctcagggt taagtgattc tcatgcctca gcctccaag tagctgggat 120
 tacaggcacc tgccaccacg cctggctaatt ttttgtatct ttagtagaga tgaggtttca 180
 ccatgttggc caggctgttc tcaaactcct cacctcaggt gatccgctg cctcgacctc 240
 ccaaagtctg ggattacagg cgtgagccat cgtgcctggc ccagcctttt cttaaatact 300
 tccagagaca gggagctcag tgcttctaga gtccatctga ccagtgatcc gcatttggac 360
 cacattagaa aaagtctgnc ttctttttcc tagggaaatt tgcctnccga acaagaaccc 420
 gctgggtcaa gctttgaatg cnagtggctt gcgggcagcg cactggatta tctttcccga 480
 atgacttntg aaacacttaa acgcccacac cctggatctt cctctgntag gctgccattt 540
 aaagccagtt ttgagccntg 560

<210> 10345

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10345

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gaagcaataa aagcacagat ttattgaagc aaaagtatat tccacagagt gggagcaggc   60
taaagcaagc tgctcaagag ccccagttgc aaaatctggg gtttaagtac cctttagggg  120
tttctattg gttacaccct atgcgccacc aatcgagggc cgaagtgaag gctcccagtc  180
tccagactct tattctccta gctcaaagaa atccactgat ttctctgtga gcattctcag  240
gttccatctt gacaacttcc tctaaatccc caggggaaga gttgtttaga gactcctgga  300
tgccctgagg gagcggctcc agagcttgct tccctcctct gttttcaca cggtccagcg  360
ataggcactg ttctctgaca atccttcttg gcactgttta tcgactgggtg gaggccctgg  420
gctatgttcc actttgggga aaacagtacc aganagagga gatagttcct gggctctaaa  480
ttgggttcta ggccctgaaa ggcatttnc catnagcccc aggacaagca tgnnccatt  540
catggggggc cttatt                                     556

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<210> 10346

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10346

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gtgtagacta ctttctaata tttttatfff ttagcaccaa aaggagaaaa catattgtta   60
caaggctggg tatagtgtct caatggacac tgcaaagaac tacataaaag aagtctgtct  120
caagcagttc gtatttgagt cagtggtcag atggggcagt tgcgctcagc tgcagtcctt  180
gactccggaa aactgtgcc tctcaaata tctagagctc atccttggcg tacatgaggg  240
gcagttgttg ttctagtacc catttagccc atggctcttc aagccaattc aactgggaa  300
aaacacaccc tcacaagatg cctatccatt tgagttcata caggttttag tagctagaac  360
taaaaaacat ttttaaaatt atctaaaca attggaccaa aagaaaactt gccatactta  420
aacngnatat atggtcctt ttttggtga aagatcaagn ttgggctntt ngaccttacc  480
ggtactaagg ctnggaaatt gccggaaaag gttttttaac nttncatant ttaaggagcc  540

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cat

543

<210> 10347

<211> 511

<212> DNA

<213> Homo sapiens

<400> 10347

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gccaaactac cttgttttat tggattttga gtaaaaacat gaaccatgtc aaagtttcca 60
ggcagactcc taaaaagcat tagcagatct ggaccaggc aggccaggga caggagagtc 120
cctctatcag gttttgaggc gggttgagcg ccgaggtagt gggggctggg agggtcgagc 180
cgtcaccttg ctgggtgttt tgtcctgggt gttgggctgg gaggggtgggc ggccgctgga 240
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gacttgcagt gggaaagctg tgcccctgaa ttgctngat agaacttgtg gcanatccgg 420
agatatagcc catnacgggc ccaggaagtc ncaccatatg cngaattggg gcttganggc 480
tccgagccct tcaattcttt ttgganaatn t 511

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<210> 10348

<211> 428

<212> DNA

<213> Homo sapiens

<400> 10348

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gaaactggaa taagtgttta ttttctatta ataaaaatga attgtgacaa aagtggactc 60
tggcttcccc tccccctcn cccccacccc tctgggataa aaattttcca gcattgccag 120
gagctttcag gnacacatta aagaataaaa ngaagttaan cngctggagt ataggatagt 180
atnnganttt caagatcacc caaagctgca ctaccgtccc aaagctgacc aagtagaata 240
aaaagaanag gaaaanaaag nacaacccat gcgcaaagat agacatttgc ttgatctgct 300

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ggctcagggc caaatgttta atttgcttct ccaaagncgn tcattcttcaa aagcngattc 360
 tgggaaactg atgccnctag nctaaaagcc cactggccat gggaggggca tnaatttccn 420
 cttggcca 428

<210> 10349

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10349

caagtttttag agaactaaat ttgcatttgt taaaatcaaa aagtaggaaa gatgttcttt 60
 acaaataatt ttgatcaagt atgtgttcaa agaaagcagg ataaaaaggc tttttctcta 120
 acattctgtg ttgtactgta ttgttgttca ataggaatta gcttctgtca tttgctaaaa 180
 gaatgagtag tggggaacag gatatgttgg aaatttcata acgggtaaca gaaccattct 240
 cttgggtaaa ccataggcag gggcagctgt gctgtaacca tatggtgttc catagcctgg 300
 agctatgtag ccaggagcag ctgtcgcccc aacaaaagct ccccttggtga gaagttcctc 360
 ttcctctggc ccgaacagct tgggactgct gcagacacag ctggattcac aacgcccttt 420
 gcctganggg ataatcttcc ttttcctaat aatttgcccc attnggggcc anaaaacagg 480
 ttntccaagg agctttnaagc ttggacttgg cctttgccct tttttaatt ggacctggnn 540
 cctttg 546

<210> 10350

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10350

ctgagacaga gtctcactct gtigcccagg ctggagtgcg gnggcataat ttcggctcac 60
 tgcaacctcc acctcccgaa ttcaagcgat tctcgtgcct caggccccca agtagctggg 120

actataggca tgcacatca tgcccagcta atttttgtat tttagtagag acagggtttc 180
 accatattgg ccaggatggt ctcgatcttt tgacctatga tccacctgcc tcggcctccc 240
 aaangnctgg gattacaggc gtgagccacc atgcccggcc ccaggatatt cttctgtgca 300
 aagtttagga aactccatgc acttntcaaa acatcagatg ctggggactg gcttatacaa 360
 gaaatatgga gaacacatat aatagatttt agccatggct aaattttcag aattttaccc 420
 gagaccgata agtggngaana aactccctga aagttggatt taaagtcana aaatctnttt 480
 cggggggggg cgtttctant attttgaana acnttttcaa atggctggca aaaggggcaa 540
 tnccccctt c 551

<210> 10351

<211> 506

<212> DNA

<213> Homo sapiens

<400> 10351

cattgaaaat tttacttgaa aaaataaaat tccagatact caggtgagac acaaaccac 60
 tgttcctgct ttgagacctg tgaattcttg tgggacagtt ccactgacag cttgcgttcc 120
 cgaggtacca gtcctcagtg acctcgggaa cccaaccac ttaggtccca aagccacaag 180
 ggtgcccttt gtcttgctgg gaagctggct gagggcctgc cagggtgga ggaccagctc 240
 tcccgcacag gggttcagggc ctctcccaga aaaaagaggt tttgaagtga aaaggcaacg 300
 aggggccaga gggctcccca ggatgggtct tttggaggta agattttgat gccacaacg 360
 catgcaaggc taagaccccc aacttagcca acgaagccca tggnctcana aaggcttgaa 420
 ctttgntnag gccgnggncc agatgcatct ggacgggtnt ccaataaaaa gccccagggt 480
 ttgctacctg gtacctgctg ggctnt 506

<210> 10352

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10352

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ggatatggtg ttcccgattt atttgttttc aggaaacaga caattgcatt gtcatacatg   60
acttagaact gcttacttaa atgcacatta ttagattaga ttaagtttct cttacaaaaa  120
cacaaccatg tcatttaagg cgaaaaatct cagcttctag ggagacaagt taatatttat  180
gatatttcct ctatctgatt tagtgaaatg atccattaat atagttagcc aggtttcatc  240
atccttacag ttttgctttg caaatggcat gagaattggc caatttgtgc ctgatttcct  300
cctctctagt agacttattt tacttgcaaa ttaagaactt cagaatcact gaatcaatgg  360
gaggtgagaa aggcacctta gaacagatca ggacttaaaa actcaataaa ggtatttttaa  420
acaaaacttg caatctacaa atattaatta agtgacaaaa tgcaacatgt agatcagact  480
tgcaaaattt tttaggtnac ctatccangg gatatttgca ntaagtntag cttggacaac  540
ctcntggt                                     548

```

<210> 10353

<211> 366

<212> DNA

<213> Homo sapiens

<400> 10353

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gagacagttt cgctcttggt gctcaggctg gagcacacag gcacgatctc cactcactgc   60
aacctccgcc tcccgggttc aaacgattct gctgcctcag cctcccgagt agctgggata  120
acaggcgccc gccaccacgc ctggccaatt tttttttagt ttttagtana gacaaggttt  180
caccatgttg gccangccgg tctngaactc ccgatctcag gcaatccgnc tgcctcagcc  240
tcccaaagtg ccgggattac aggcgtgagc caccacgccc ggctttattn tttnttttt  300
gagacagagn ctngntctgt cacccanact anagtgcaat ggtgcatct cagctcactg  360
caacct                                     366

```

<210> 10354

<211> 504

<212> DNA

<213> Homo sapiens

<400> 10354

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ctcaaaaaca atgtttatth taacacataa aatgtaccat ctagcaccaa tgcctgtaaa 60
taccagaatt ccatccggtt actactcttt ggaacaagta tgattaaagt ccttgacaga 120
ttattgtata tgagcgaatg gcttcataac ataaaacaga gagacacaga acagaaattc 180
atttggtata tacatataga actacatttg tagttattca aaaacctttc actgcttcat 240
gtaaacaata ccagtattht taagccagat tttcctggaa catatacata aagtgcata 300
gccacgtaag tgcataagcc tgaaactggt ctttctattc tcaactcatg ctcaaatgaa 360
aaatctgtaa agatatcttt tggttcctcc aatcttctga ttggcttctt tagcaactca 420
ttacagnncc aatttacctg attaaaatcc catngacatg gtatggtngg aggaaaaaga 480
aaacctttgg ccaatttnan nttt 504

```

<210> 10355

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10355

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gaatgaaaac catgaattta atngacatt gggggagcct catccttccc tttttaccac 60
ccacccatcc agcctgttgn gagttgggtg agggctgccc ccagtctccg tcttgccgnt 120
ntgggtgccca tctgtttcct ttgagctcag tcagcctcct gggctcgtct ntntngaat 180
ctccttcttg cgtattcata tagngcttgc ttgcgctcct gcaggctntc ctgccgggcc 240
caggaanact tggcaaatgt tagggctgtt ggctgagggg tcaccgggcc anagctggga 300
aactgaggng atcacaatgt canagggtt gcggagtcac catcattaaa cacgcatcga 360
atgccttgga ggcanaggct gtgggtaggg actgagttcc cttggngatg tcttcaggca 420
tgaaagctac ggccccctca acagattaat gatagcaagt ctacacaagc cagtcttggc 480
cagggcintt tgggtgaccc aanggccatg ggggnaaant tncctgactt tttgagccna 540

```

angtg

545

<210> 10356

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10356

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accatggaaa aacatctgga ttccatttgg tagtttaaag gtttttgaaa atgttgatat   60
acacaagctg tacttggagc tggataacag acataggagc tggatgacag acatactttt  120
attcttttat ttttgagatg gagtttact gtcaccagg ctggagtgca atggagcgat  180
cttggctcac tgcaatcctg cttgggtgac agagcgagac tttgtctcaa aaaaaattct  240
tttaattaaa aaaaaaaaaa agctttacta cttcctgtgg agttcataaa aagttcttcc  300
ctttgtttta gtcattccaga gtaaagtcac agggctcaaa gtctttccgg aagcggcgag  360
ccagggtctc ctgccttcc tgcctgatctg acactggctn cagtcagact tatcaggaac  420
attaaggatg gcttcactgg ccaggacctc ccttccaact gcaanggaaa atccttttaa  480
atctggggaa aagctttctc cggggcaagt cacnttaaaa aatgccgntc cngctggcaa  540
tcggttgatg naaangg                                     557
    
```

<210> 10357

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10357

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gagatggagt ctcactctgt tgcccaggct ggagtgcaat ggcatgatct gggctcactg   60
caagctccgc ctcccgggtt cagccattc tctgcctna gcctcctgag cagctgggac  120
tacaggtgcc caccaccag cccggctaatt ttttgtatt ttagtaaaa atggggcttn  180
accatattag ccaggatggt ctngatctcc tgacctcgtg atctgcccgc ctcggcctnc  240
    
```

caaagtgctg ggattacagg catgaaccac cgcgcccgcac atgcttggtg atgnttagta 300
 aacagcacag tcaggttacc aggtagcttt aaggagagag tccactccaa aaaccggtgt 360
 tggcaggatc cccgtcctgc atttcctaac ccactcgtgg tctaccccca gcctttaaag 420
 tatggccttc tgaaaacctg accctgggaa gctgggaacc tnaatttggg caaatccaat 480
 ggaatnacct gatgcncana atttaactta tccaaagggg aacttatggt taaagccctn 540

<210> 10358

<211> 416

<212> DNA

<213> Homo sapiens

<400> 10358

gagaaaacca tttttattat cattaccacc cagcttatct gtgctggatt atgtaccaa 60
 tggccagatc ttctaaagaa catctacata acatttcitt catgtttcaa gagatgaaaa 120
 taactgtaca aggttaagta caaaagtaca caagacagcg gacacgaaaa aatccatgta 180
 tgagatttta tccccacctg cagcttttat atatttgaaa agtagaattc atgaactaaa 240
 aaatattatc cttctatagt cctgtcaagt ttaatggaag tgggtttaac ctgattacaa 300
 cactaacacc agtatcactg atctgatatt tacaaaaatt tggatttttc aataaattaa 360
 agtcaatgca acacccatgc aagctagagt gctanctggt tngnngaaca nggncn 416

<210> 10359

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10359

cttgtttcaa gtccaattta tttcacacaa cacacaggct gctgaggga tccacctgca 60
 ctgcactcag ttgaacttcc ggcccagtgc cgcgtcagag actaaacat gggagaaaagt 120
 tcacaccctg gcctgggcca cccaccttca gctctctcct gtgcgtcagg acgcacgctg 180

gccccaaagag cttcactcaa cacggctggg tcctgggcgg acgtgggcac agcacttgcc 240
 aggcgccccct ggcaggggct cttctcagtc ctccgcaccg ctctcctctc cgctgtcttc 300
 gtcgtcgacc ccacctcgg cgccctcaac ctctcactg tcctcttccg agtccgtctc 360
 ctccagccac tccagagttt ctgggtccat ctccaccaag gccttccacg cctcatcctg 420
 tgcangtcca ggcagtgcag gtcgttaagg tganctggcg gcggccggct tnaaaatgcc 480
 ccatagacta gagcacccat tgcttaaaag cagcatggcn tggacctgga cacggcccag 540
 tgcnggnttc cggcttntna aggt 564

<210> 10360

<211> 481

<212> DNA

<213> Homo sapiens

<400> 10360

ctaatttccc tttaatttgt agatttaacc acagaactgt ctcgattttt ataaaaattg 60
 atcccaagat ccaccttctg ccgtggctgc cacagtccag gctgagcttt tcctcctgag 120
 ccacacacgt gtgttcccgt ccagcccaaa ggggagaggt gtggggcggt ggggcgggga 180
 ggcgccttgt gctgtggcac tggacacggt gctcatctgc aggatagcca cgaaggcaaa 240
 cggcacagac gaagacaaca caagacacac gagcctggtc ttccatcctc aggactaaaa 300
 ctgcgtgag agcaattcac ataatctctg agaaacggct tccttacttg tgcgcagcgt 360
 gagccggtac atcttgggct tgcaggttcg gntccaacgc agcangcatn caatctgggt 420
 gggttttcgn gtggatgaat tccagttcca cgaaantcca ngattaggac aacttnttca 480
 a 481

<210> 10361

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10361

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gaaggagtta attacatgta ttgattaatg gatagggtaa acagacgaaa atcaataaac   60
ctgagccagg ctgccccaga gtgctcccat gcctgggctc tgtctgctaa gagggtcaga  120
ggcagtcttt cctggtcagt gccaggatga agccagtcct gggccagggt gctcaggcct  180
ccagatggat tgccctgggt ggtgacatca gcatgggcta cagatcagtc ctaggatccc  240
gctcatcact cgctatcggc ctcggcctca ctgcctgtgc ctgcccagcc atatgggtgc  300
aatggcctgc ctgagaggag aggatactgg ggagggggag aaggcctggc acagtactgg  360
ggaagatgga agcagcaaac aaggctgtga acacagccag gatcaagcca gtgganccag  420
tgcaaacaca catgctcana tganggtggt ctcttggaac ttttttcaa gtaaaaccgg  480
taaagaggaa gggcttaagt cnanggtggt aacctgccct taanaccatt tttggtacan  540
ttgnccaatg ccnggggctn                                     560

```

<210> 10362

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10362

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ccattaagga gaacatgaat ttccttgagg gtgaggctcc aggtagggac agggcctggt   60
ctgctgaagg ccacaggaag caaatggccc ccagtccacc tttctgtccc tgccatgaag  120
ggccattaca ctgggggtggg gaggtcctca ggagggtgtc acacatagcc ttaggcaata  180
gcaagtcttt cctattcagc tctgtccagc ctccaattga ggagggataa tgggggtgag  240
acagggttgg ggggtgaagtg gccaccaaac ccggcaaaag tgagcagctc catcttgtct  300
gaagttaaca tcatccctc aggtataaag cctctcctna catcgacttt ggtaaaccag  360
tcagtacag gccttgcca agctganact tggcaaaaac ctgaaccaag tgcccnccgg  420
aaagccataa tectancctt tgnccctcca atgcttaaaa gtcacaatgt tccccatggg  480
catccctttt cctgaateng ctntngtgt gaaaccnggc cagcccgggg ccta          534

```

<210> 10363

<211> 454

<212> DNA

<213> Homo sapiens

<400> 10363

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ccagtgaag acaatatata tatatttgga ggtagaaata attacaaaa tactgacatt 60
tctaaagcat tagcatatit gttacaaaca atcaccaact aatccccatt cagaaaactg 120
ctttgtaaaa tgattattca acatcttcag aactacatat ttgtggcttc ttttttgaaa 180
tttcacgtgt gagtatttgg agaattcagt tagtggcaaa aagttgtcca tactatgaga 240
aatgtaatat ggaaattata aaaagttata aatgttcata aaccccatgg tcatcataat 300
gtaaatgtcc ttgagtgcac caagttgata tttcctcadc aattgagagt tcacagttct 360
tatttcacag gccattgat gtttttagta atgtggctat atctgctggc atactccctt 420
natnaccttc atctactgna gncatatccn gnnc 454
```

<210> 10364

<211> 587

<212> DNA

<213> Homo sapiens

<400> 10364

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cttttttttt tttcgatgag caaactgaac ttttaatttgc ttacctgaaa ggcttgctct 60
tcattattgg cataggccac agctatttac acagaatcat tgtacaggat ttacagcaag 120
atgctacaca tagcatcatt ctggataagc gacaaaggag taagaacaga ctggggaata 180
aagctctgaa atcaaagtgt aagcagaaat ctgaaggtag gtgtacaagg aaggataagg 240
gccaaatgat gagcgagggtt ggtgaggtag acataaggga ggaagaggaa acatccaaca 300
acttgtggtg cagagatata aggggaagagt ccaactggcac atagtcttaa aaattatggt 360
tgaggtttga aggaggaaaa atctgccata agccacctct gtgagaaaaa agaaggcagt 420
tagaacctta caggccaaac cttatacctc cctatcaaaa gtaatctgct gattaatcct 480
ggataggana atgagaaggt tgaaaaagaa agagaggaga tgcttgancc cgnaccttaa 540
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ccggagttag agacccaagg aaatttnttc aggaaaggnc ccaggaa

587

<210> 10365

<211> 587

<212> DNA

<213> Homo sapiens

<400> 10365

aaccttagtt taggtaaatt taatgactgt aaaagctgtt cacatagcag ctttaaagag 60
 acacgttttc cactgacata aagttgcttc gccccttgca gcttatctcc accttcacga 120
 cctgtttcct cagtggcagg caatgtctcc ctttctgtt ggggaggatt gcccaagtca 180
 gctctgaggc catcctctca ggtagcaat atgcagaaga gtccctcaga gtggtcctgc 240
 agagaacatg tcccttaagt gtctgagaac tggctgaggt gatcttcacc agcacatagt 300
 ccccaggctg ggctctgacc ctgagcccag gggtattgac atcctccatc tctgcatcag 360
 ggaagatcac ctttaaggttt ccatcattcc tgccacacag gtcaagtggc agaaccgttt 420
 actgagccct tccactagca ccacttgggt acaagcccac aagaaggtct gattgggctt 480
 ttggtgcttc ttctcggaag atagtgatga agttccttca aacgcttaaa ttttancctt 540
 tccgggaaaa ttattcttta gncctttgan atgncccn gn ntttttg 587

<210> 10366

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10366

gtcgtgaga atattttattc aaaaacaggg attgaaaaaa ctgtacagag tgtctgctgc 60
 tgagaactgg gcccctgccc catgccactc cccagctac ctggcagtgc cccctctttg 120
 ggggtgcccc tgacaagccc agccagttca ttccagtcaa aagggtatca gtggaagcag 180
 caagaaatct gcaggtggtg gggagagaag cctggcccca gctaccaac gggccctcct 240

ccctgactcc cacaaggatg cagtaggcca ggaagcccta agggatgggg agtgcgtgag 300
 tgacacccgc catggtgggg gcactaggga gtctcctggc tgctccctgt atccaagcac 360
 agagctgagg aggtagggcc ccctgccctg gggcttgccg aacttnagac ccctgggcca 420
 naactgnccc actctgagag aaagactcca taaatggagc caggtanggg gtgcatcatg 480
 cgtntggccn taccgcgttt ggacccangt ggagnttctt ggccggtagg tgcaaagnaa 540
 ncccctgt 548

<210> 10367

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10367

atattttatc aattttattg aaatattcca aggatcccaa ccccatTTaa aaataaaaat 60
 tgtaaagcac tccattcaat aaaagcacat aagtccccct caataattag tatgacaatt 120
 cagatacag ctcttactct gggagagttt attttaccct ttattccaaa aggcacaaaag 180
 tcatctgagg cctcagatat taaccccaact gcatgttaat gacacaccac tgaggtgcag 240
 ctcaatgtaa ttattaaagc ttataacaca cttccccaaag aatttataga ttctttctat 300
 aaataataat ttaaaaaata ctgcacctta agaccaatac aggcTTaaca aaagacctga 360
 aatttctgca agggcagttt tgtttcttga tagaagtaca acttttgaaa gtctattccc 420
 agcaaaagaa acactagacc cagcttggcc aaagaaacaa aataaaacag gtgatttcta 480
 acacgctaaa ggagtccatt tcatcagctt ccaagaaagc agtctgggca ttcagaaagg 540
 ttctatgatc caccagctgn aggcattaga aatn 574

<210> 10368

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10368

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cagggaggag accactttta ttgcttgtct ggggtgatgg ggcaggaggg gctgagggcc 60
tgtcccagac aataaagggtg ccctcagcgg atgtgggcca tgcaccaag gaaggggggtc 120
ttcatgcagc cgggtgcagag ctggtccatc cagaggggtg cctcgtgctg cagcggcgta 180
cggcgtgggt agaaggtgaa gtccacgcgg tagttgagca ggcagctgag ggaggccatg 240
tagaggtcag agaagcgcac gaggcgcctt gagaagtagg tggggttggtg gaagggtgcgg 300
aagatgctgc cgaactgcgc attgaacagg gccttggtga tgcacctcag ctccctgccgc 360
tctttcatcc aggcagccag cacctgcctc gactccgcgt cctgataggt ctgcatgcgc 420
tccagcagcc ccgtgagcgc ctgctgccac gtcagcnagt gcatgtactg ctccgtgttg 480
ataatccgga tctnaccttc aactngggga taatggccct gtccccaacc tgcccgaaca 540
tgaaatccgc nnaacacttt tnaagnggcc 570
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<210> 10369

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10369

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aattacgcat tttaaataac aatatgtgca tttgttttta cagttataaa tttttttctc 60
acctgtttta gacaacagct tgtaatagtt ttgaatccat taagatgttg ctttcaattt 120
gaaatatatt gtgtatacat gtatataaaa aataacccaa tgtatgactc atctgaccga 180
tgtttaagat caataacggc ttatttttca acatgcagtt aggaagagag ggaagcaagc 240
caacctctct acagtatctt tttgctggct tgtttttgta gtggtatcaa tagtggtttt 300
tggagggaac catgtgcctt cagcctatct agtcaagatc agataccacg atcaacaaga 360
gcggtagaag agatggggaa aggggagtggt gtaagtgtta aatatcaatt ttgtaaagtg 420
tgcattttgg actccttcta ggcacaggat taaaaacagg nccatgagga aaaattggta 480
taattaggaa aaactggaat caaatcaggc ctaatagccg aattaaggtc ttttaatagn 540
tgnctatntg gaggttaacc tncctt 566
```

<210> 10370

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10370

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gggaaatgat gttcttctgg acgtataaat aaccatcagg tggccaattc tcatccagag 60
tggacagggt ggaatgggat catccctgct ttcaaataagg gacattgacg tacagagaga 120
ggagtgggtt agctggggcc ccagggcaca gcttcaccac cctggggagg tctggggaga 180
gcatcctgtc cttcaggaca cccccacca gcggctggag gtgagcacgc catgagtcgc 240
cccaggtctg ggaagagtgg gtgcatgggt gcttaagagg ctgcattctc agcgggccct 300
gcacctgccc cgtcctccaa cccctgtagc cgacgtctcc tctgctccac ttgatgtcga 360
agccgggtca agaccagctc tgaggcctga atcaagctgt gctgcangat gtgcacgccc 420
ttcagggaga ccacggnaag cttctgcacc catcccggtc angtccacgt gagccatggn 480
cacaggggac tgganaacnt ccgttgcnca gcanatgg 518

```

<210> 10371

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10371

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gaaacaagta aatcattggc tttattctgg gtccctggaag ctccactgtg agtctgaaaa 60
aaagacacaa caggggcggc agccctgggg gctggtgcag aaaatagtcc ctggctcctc 120
tggccctggg agcctaaagg gcagtgagga gaaggcttag caagaggcct ggagcagggg 180
aagtcaggtc cctcaggaac cctcctccc ccagaggaag gaggaagagg gctggagagt 240
ctgctggaga gtctgctcag ttccctcagca actgcactgc aggagggtgc aggccatggg 300
ttactccttg cccttctcag gggcagtggg ctcccagagc cacttggtag tccccagggg 360
ctcagtccca ggggtccagcc cgtgactccc ctaagggcc ctcgcccttc aagtccagct 420

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nctcaaaaga ngagccgttg cacctgactc ctigaactgn gctcgctgcg gtgtancgta 480
 tnccancacg gttgtcgccc cagtgcacatg tggaactgaa gctnccggtg cangnttact 540
 tcaactaca 549

<210> 10372

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10372

ggacagcttg ggctggcttg ctgtttgtca ttttcaggga aaatccttat tttttcatag 60
 ttaccatcaa gatctgaata aaatacaggt tttttgaaag ctctgtttat cccatgaatt 120
 ctgttttggg ggaaccctga aattggagtt gactgtgaac atggaacaaa gtcttgacta 180
 ttttcaaaat tatattctga atctgattga aaatgagggtg ttggagagca tgttcttgaa 240
 tgcctagagt cagataggct ttgcaaggat aattttttgtg aaggctggat gaagtcttca 300
 gaaagtgatc tcagtgaaaa atcagactct gaagggtgac tttctgccaa agatgttccc 360
 cattttaaca aaatatactg tgatTTTTTg gtaatctcag ttgcaatgcc atttcttttag 420
 caatatcatc aaagagatca gcagaggcat catagctacc ttcataaccc atagaatact 480
 ctgggggtacc ntggtaatgg atatgtcccc angcattctt caatggattn gacttctatt 540
 tggactatgc naaaagttct n 561

<210> 10373

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10373

atttaaagac aatagagggg tgtagtatta tgacaaaact agttccctca aaaactgaac 60
 tgtgttagca ttgattagag tgtctaatac ataggcagac ttgggggaaat accagggtt 120

cctcaggata tgggtgttgat tctgacggta acctgcagcc aaatgtcaag ggccataggc 180
 tgaatgcctg gggagctctt ccaggggtaa agaatcctct tgggcctggg cccctccagg 240
 cagccaagat agggcagagg cagagagatg gcccagacct ggccaaatgg gttctatatg 300
 agccgccttt caataaagac ctgggctgtg atgaccccag ccgtgttctg tgccacagcg 360
 ggcggagtgc tcacaagtgg gtcctcgggc catgtgagac cccactgagt acactgaaca 420
 acacgccatc aagcagggtc catctgacac ttgnctgggg ccacaagcc aagcttcagn 480
 ancatcgnaa cctttgccgg acaaaagccc agggtcctt tagttcatct ggatgnttga 540
 gtcccccttc ttggcttnc ccggcccaca ctt 574

<210> 10374

<211> 575

<212> DNA

<213> Homo sapiens

<400> 10374

gtttatattt ttaatatattt acatcagtct ggctgttaca tggaaaatag gttacaagag 60
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 ggaagggaag cactgagaaa tggtggatg tggaacaaaa tctgcaaaca gctgatggac 180
 tggatgacga ggcatgaagt ggagaggaga ggaaacaagg atggctcctg cgctctaagc 240
 ctagacagcc gagttagcaa caacaaggct tcagctgaaa tggagaccct ggcagggtgg 300
 gtgcagggtg ggagctggat cagaagttct gatgtagaca cattaacag gatgtgctat 360
 tagacatcca agtggagaac ccgagtagac tggtagatat gtacctctgt agctcaaaag 420
 ggaagggtga atgtaataga tgcccatcnt tgggggttca ttgggccgtc aaaaacatgc 480
 ctgaattggg gtanagacca acatcnttaa ggncatcctc tggcttccan ggaaggaaat 540
 atttttccg gatttcttat tcncatntt gacaa 575

<210> 10375

<211> 413

<212> DNA

<213> Homo sapiens

<400> 10375

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gcgggtcacc cgtgctgttt atttacgcag ctgtgttttc taacactaat acaatgcatg 60
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gcatgggggt ggtgagcacc cgcattggcct ccgcaaaatg agtgccgctt aacaaacggc 180
cccaatgccc ggcagtcagg ctgggccttt cagggcacca gattcctcgt tccaggccaa 240
gtcagcgacg gctcggggaa gtctgctgcg gctaggagcc ctgagtgtcg gtgttgtcgc 300
tgcccgtggt gttctcccgg tctcctccc cctgccggca tcctttctgc atcttcctga 360
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<210> 10376

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10376

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ggggcctcac cgaggcgctg gcggctctgg ggtgcagctg tgggcggcct gccagctgct 180
tgaggcttca gggccttctt ccaggacatg ggggtggctg ccagccctct tcgctacgac 240
ccgcaggtgt ttgaaggccg ggggcagcct gcgccccagg aacggcgggg tggtcacgtc 300
gcggatcatg agcacgtact cccctaggtg tgctgccgca gcctgtcct cctgtgctct 360
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agnccgcttt ggaatcttgc cgcttgctt cttggggaag gttgncagga accggaang 480
gngganccaa gccgggggcg gncccaggan gacaattgg 519
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<210> 10377

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10377

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gtttgattct aacaaaattt attatgcagt aattacaaag gttaaagact ctccatctc   60
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aaatatcaca ggaaatacag tgcattttca agttggagag acaataactt tctcattcac  180
agtgtttgac ataggaaagc ctatttacat aacaatctgt ataaagtcac gctcttagta  240
acagtctata cagagctgtg ccaacacaat tctttcagaa tgtgaagtac cgggcaaacc  300
actcctggcg ctggggatct ggagaagcca ctggagaagc ttcactctga gcaggactca  360
aaaatgtctt gggcccttta ggtggcactg gctgtggaag tggtttgctg ctgttgaact  420
caatatcgtg gactggagaa ttaggaatgg gatccaggcg gntaggatgt ccattggcca  480
cttcaccaga ttncagagca cttaaattgg gaacactcac aaacctgttg gtgggggatt  540
aatcatcttc ttcttttgnt t                                     561

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<210> 10378

<211> 532

<212> DNA

<213> Homo sapiens

<400> 10378

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gcctttggaa gcccttcttt attgggaaat aaatacagag ttaaacaggn gggccggcca   60
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atgagctggt cattccccac gatcacctca ttcactcggt tagctttggc ttcaatccctn  180
tggccacttc caatcaagca gtccttgatg tctgcacct tctcgatcac agcattgttg  240
canatgacac tgccttggat attgcttcct tctccacag ngactgagtt catganaagg  300
caattggtaa tagtcactct atcttttatg agacaggatg agccaatgac tgagcgctta  360
atggatgact tctctccaat ctgngtctct ggcccaatga ggccgtcaac tccaaccagg  420
tgtttgctga caatctgggc tgacnaatgg actggnnggt ctttggacag anagcanaca  480

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gcaatttggg cccctgctgg ttggttncat gtaaaagncc catgngctcc tc

532

<210> 10379

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10379

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ataatatattt cagggaaggc agcgcantct gtgccgtcac aatcgggcga ctgtgggtga 180
tgagggatga tgattttcca ggaggccctg gggtcnagg actcctagag ggagtttcca 240
gccccctcaat cgcagatgga tggcctgttg atgttgtaac tggggtggaa gttganccgg 300
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agagtattgt tccggaacat tccacccgag gcatctcntg cacggtgggg gctctgctcc 420
cgtaagcctg gttactgggt cctgtcactg aaacagcctt ctgggtcctt gtaacccccg 480
aaccaccng ggttggnatna accttgcccg gcanngtccg cgcttacgcc gnaagtna 538

<210> 10380

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10380

gaacatgaag aaaaacgttt attataaaac ttaagaagca accaatcaac caaattatga 60
aaaaaaattt tgtcactgac caaacctcat aacctgaaaa gaaccaagaa aagaaattcc 120
cattatactt gtacttctaa aagggttag aggtctaaac tagacttcgt tgcaatccag 180
aaagttaaag gactaaaaaa ctggagaaat agagttaaga attagattta tcagacagca 240
tagtctatgc tgagatagca aaatagacat ggctttattt gctgattgag aagtggcca 300

gccgtgggct agcagtcatt tacatatcag tgaccaaatg caaacatacc cgtactaaca 360
 gtgcttttgt ccatgacata cccttttgac agcccaaagc tgaaacgtca actctatctg 420
 gggttacttg cttatacaaa ggatgttact ctagcaattg gtgcttgagg gcaaganccg 480
 atgattgnca ctagtaggga agaaagcnga agtggatgca acttacactg gatagtcctt 540
 anccttctgg gattaatgga aaaggtgn 568

<210> 10381

<211> 403

<212> DNA

<213> Homo sapiens

<400> 10381

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 cagcctgggt tttgtcttga aaaatcttct ccaactcagc tctntgttct gccaattntt 180
 tctgaaactg gttttgnaaa tcctccattt ctgattgatg ctttgcanac agttntttgc 240
 gtaaattttc taaacataaa tctttttcaa attcccaatc ttccttcagg gtctttacta 300
 tctgggcgtt tttctccatt tctgattgna acttctcctt nagctcagct gagcaccacc 360
 tntccttctt ccngngcgtg ctgntccctg aggagctcca gnt 403

<210> 10382

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10382

aaagaatgtg tccatttatt ttattatntt aaatctgaac tttcataaaa tgatggttat 60
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 ttgcacctta ctatcaggtc cagcggctgc accattcagc cttgtaactt aatttgcac 180

tgctgagact gtggcagccc cactgcaagt gactcagttt tcttgtagtg atagtaagta 240
 ggggatgctg tgctcctgac tgcatttctc ttacagctgg tcaaagtcag aaatgatggt 300
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 tggagagacc ccagtgggggt tccaatccct caaaaggatg cagcttaaga ggggacctaa 420
 aagaaactta agcttgaagt ttctgagatg tagcatcatt tctcttcctt ctacactcat 480
 tctgncaggc tctttctttt tacacactgg cccctnttta aagaacccat caagccaggn 540
 ccctgcanac agaccggacc gcct 564

<210> 10383

<211> 511

<212> DNA

<213> Homo sapiens

<400> 10383

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 cagccttctt acttgtacct caaacactgg gataaaggag gcggtccagg gcaatgcagt 120
 gatgtctgtc aagacattcc ccttccccta aactcagtag cagttgaggà tgacatttca 180
 ggctagagag acccaaaata cctctgttcc acctgagagc aaggtggaag ttgcatcagc 240
 tactgcccc aagttagcttc atcttctgat tgtgggcttt ggaggaacga gagaactggc 300
 tcttggccac tgtgaggggt acagctttgc cactcaaata taccttattg nggcattcag 360
 ggagccaggg tccagagctg cagggctgcg gtccctggct cactttcaca taggccatca 420
 cataacctgn cataaaggca tnaaaaccag cccggtgcaa tccatcccag gcactgggnt 480
 angactggct tggttcctgg nacttntgan g 511

<210> 10384

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10384

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gtttaaatga atgaccacaga cagagctttc aagctgtttc ttagagaatg tgtggttgag	120
cagaaatggc tatccacacc tgacacaggt cccacccac ctcacaccct ggaggcagca	180
gcataagccc cagtttccac tatggtgtct cctcaatgac cagaataccc gccagttcca	240
ggggtcagca attccattct ctctctggct cagttcagaa gctgtgatgg tcctgttaga	300
gagcactgcc tgcaggtcaa aacctggaag aggctctccc aggccaggcg acaacccttc	360
aggtgcagac ggggaacaaa aggcttaacc tgtgataatc ccaacacctt ctgaaaaaag	420
agtaacagtc atccagcaac gggccatggg taggggcagg ccgtaacaag ggacactgcc	480
cctggctcac atgtcctgtg canaagggtg gcacagatat angctcgctt ttaaggatct	540
ggtggacctt ttttaanctg gcn	563

<210> 10385

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10385

agttttaaaa acttaaagat atttattttt taaaggggaa cttatttgag aaacataaaa	60
acacaacaga atactttata caccacttaa tataataaaa cagacaataa taacatacat	120
ttttgcaagc ataaacactc aggttactaa taacatttgg gtgggtctaa cagttatgag	180
cagatgagcc atattttataa agaaattggg cataaaggga aaggtataaa tgcatatcac	240
tttggttggt aattgtgtat acccagcttt ttaactctgg tcacttgaaa tactgtgccc	300
aacaacctca agtcttttga tgagattgat ggaaactgtg ctgggtcacc actgcatatg	360
cagtcaccca aagagctgag atctcaagaa attttatctt tcacaaatgc agatgtacga	420
aaaggatatc tcatttatcg aggaagtttc aacattttat gtcacactca atgcttatac	480
acaaagtcag tattnggata atgcactttc atggagtcag attctgatat ccagcngcag	540
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<210> 10386

<211> 413

<212> DNA

<213> Homo sapiens

<400> 10386

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gacttcttcc tttattattt atttattttg agacggagtt tcactcttgt tgcccaggct   60
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tcctgccttg ggccgagcac ggtggctcac gcccgtaatc ccagcacttt gggaagccga   180
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gtctctatta aaaatacaaa aactagccgg gcatggtggc ggatgcctgn aatcccagcc   300
actcgagagg ctgaggcagg agaattgctt gaacccggga agcgggggtt gccgngagcc   360
gagatcgngc cactgcattc cagcctgggc aacangagng aaactncgnc ccn           413

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<210> 10387

<211> 560

<212> DNA

<213> Homo sapiens

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cttcagaacc tttttattca tcatttaacc aacagagggtg gttggctcga actcaaacta   60
aaatggcctc aaaaggccca cctcgttacg acatgacagg gcaaaaccag aagtagggac   120
agagtttagc ctcagttctc tgcagagaag accaagcatg tatttacaca cagggtgcctc   180
attaagaact gattggcaat gttccaccag cacagaccca gagtgtgcag aaatccgtgg   240
gggctctgta tatgtgtcat tcagacaatc cgccgattcc tcagccataa acaagctctt   300
gctttttggg aggagggtga tcagcatgtt atcttgaatg atggcaccat ttgtttactc   360
tggaactttg aaggggaggt gacaacttat tttctccctt gaatctgaga tgcagtggcc   420
tgtcagagta tctaaaaatg tgcctggaa gacagggtgt ggtggttgcc ctaacagaga   480
gttacagggt aatggggtgg gctctttcag tacttaatcc gntggttttc aaaaaccctt   540

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gnacctgggg nccctggacc

560

<210> 10388

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10388

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aacaaatgga tgtctcaagt atctttgtta aacaggatcc gaaatgaagt aaatagtagt	120
taaaattaat tataaataaa gacatttcag cacataaacc acaagtctt ttctagattt	180
ttaataccag gacctaacag catcattttc caagtaagtg acaataact aatgtgaaaa	240
ccatatttaa tatagatgat gtcacaaatg acaatgtggt tttccatagt aaagaaatac	300
gttaattttc ttaaactcta ttggtatta caaaataaat ttactggtc aaaaaacaac	360
caaaaaaac caggaaaaca gacatgatgg aaaggttgat aaaatatatt aataacttaa	420
aatgctgtc acaagcatgg aatgctacc attatcattt gaatacnaca aatgctata	480
aagcaaagag ttggcagaat acagtagaag agctattctg aaacaaatga agagtcagaa	540
cnttaaacng gggccaggat tttt	564

<210> 10389

<211> 414

<212> DNA

<213> Homo sapiens

<400> 10389

gggctagaac cattttaata taattataca tatctgcaa atccaggaag aaaaggttta	60
tgcataatata acttttccat ttaacatgtg caagcataaa cgacaatgat ctcagtttaa	120
taattcatca gggtcagagc aattgaccaa tgtctgttta ctgctaggct taccaacagt	180
aaattacaga tgaattagtg tccttttgct tctcttctct gactctcttt gtccagagac	240

at tt t t g t c g t a a g t t t c a g t g c a g c t c a c c t c c a g c c a a a g g t a a t c t t t t t a g a t c a g 300
t a c t c a g t t g c t c t g a a t t t t g c t t a t a a t t a t a a c c t a t t t a a t c a c a g a a g a a c c c c t 360
g c a n a g g t g g a g t t c a a g g t t g c a t a c a a t a a c n g g a n n a t c n c a g n t t t g n a g 414

<210> 10390

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10390

g g t t t a g t t c c a a c a a a a c t t t a t t a a t a a a a c a a g c a g g t g g c t g g a t t t a a c c c a a g g 60
g c t g t a a t c t g c t g a c c c a t g a t g t a g a a g a c t g a g t g c c t t a c a g a c c a a t c c t g c t a c 120
a a a t a a c a g a t a t a a a t t c t a g g a a g a a a a c c t a t t t g a g g c t t t g g a g a t t t a a c a a a a 180
a t a g a t t t t g a a g a g g a g t c a a c a c c t g g a g c a a g t g a t t t g g t t t t t g c a g t t t t t c c c 240
t g g a g g c a g c t g c a a t g g t g g t g g t g t t g g c a c a a g g a c t g g g g g a g g g c a g g c a g c a a a 300
a a c t c t t g c c a t c t t t c t g a c t g g a g g a a a c t g g g g g a a a g a g c c t g g a a a a a c c a t a g g 360
t g c t a g a g a a t g a t g c a g a t g c c c a a g a a a g a a g a c a g c c n g a a g a n g a c a a c c c c a g a t 420
t c t a t g t t t a a c c t c a g c c c a a g t c t n t g g c t g c t c c t g a a c c a t g t a t g t t g g g g c a a t 480
c t g a a a n c g c t t t a a a c t c a g g t t a a a g a a c c t g a a t t g n g t c t a t g c c c t g c t c t a c a g 540
g c a t g g c a n 549

<210> 10391

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10391

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a c t a t t t a c a a a g c c t c t t c a a t a a a t a a t t t a g a g a g a a t c c t a c c c g a a t g g c t c t a a 120

catttgtaca tgaatattgt acatgattaa aaataaataa ggcaatataa tacagttttc 180
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tggcgtggct ggctctcttc taatcttaca ggccaaacca ngggtcctgg actggcttca 540
ctcacgcct 549

<210> 10392

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10392

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cttcatgaat ttatgtgtca gccttgtgca ggggctgtgc taatctctgc attgttccta 120
ttttagtaca tgggctactg aaacaagcag agtccactt cttaaacttc ctcttcctta 180
cacgtaaaaa gccaccagt caaggtcttt taatttttgt gtacactatc actgaatgcc 240
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agttttcaga aaagatgact tgcaattcta acttagtact tgaaagggtga gatttttata 360
ggggaggctt ataaaaggng tcttanaaaa aaaatgagcg ctctcaaacc tttcttttgg 420
gaatgaagggt gtggggctta agtgactttt tnaaaggga acaactgacc ttncggngg 480
agaagcccc tatgcgaact gtggccaacc gcaaaggatg gttctgngca cattcctgg 540
aancaancg 549

<210> 10393

<211> 452

<212> DNA

<213> Homo sapiens

<400> 10393

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cgcgactgag acgaaacgac acacaccttt acttaatgga aggcttcgct tacatcctga 60
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gttactagtg ataggaggct tagtgaagcg cgtgatgtga acggccacgc tgcaaggctg 180
gagagaagag aggaggggagt gaagttgcac cctgatcgcg aatcctcggc cttttatcag 240
gggcgccgcc actcggggtc cgaccattcg cctccaacga ggggacagcg aatctgctgt 300
cgtgtgcagt ccacagcaac cacaggtggg gcaacaggag gagcgcttgg gcacgaccac 360
gtgaccagc acgagccacc gcccgcceca aaatgaaatc aaatcctaata ctcccaatcc 420
cggnatgccg gncactccan ccttnncang na 452

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<210> 10394

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10394

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gcatatataa ataacattta ttaacttagg ctgtacaata tattgattta gtcaaataaa 60
aaataccgta cacaaaaatt gaagtaaaat ctgtaagatg ccattcagac tgaattttat 120
attctgaata agacaaggga ctgccattca cttaaagcaa aatggctcca attccgttta 180
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gcaccatcac acctggctaa ttttgatttt ttagtagaga tggggttcac catgttggcc 480
agctggctctc gagcttctga cctcangggg atccaccac cttggcctnc caaagggtg 540
ggatacag 548

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<210> 10395

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10395

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cctaggacag ctgggcctga gctgggcggg caggggattc catctcctgg gtgcgcctgc 180
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gcagcatctg cattggtgag gccgggtgaa aagggtgct ggtgccggac agcttctggt 360
gctgggcctn acggagacag aggaccagan gtncagggtc ctgggggctg agcttttctc 420
agactttgga ggaaaaatgt ccaacccaac angcaattgc ccggggcang ggccagtgtg 480
tcanaagcgt naaactcttt cgccgngnga tgtggtaccg gtgccggggg ctcaggaatc 540
gaaggcggga n 551

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<210> 10396

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10396

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aagatatgac acatttatca tccataatca aacaattcaa atccctgact gaaattggct 60
tgaaaaatga taaaactct atggctgctt taaaggactg taagataaca tgtttttaaa 120
gcctatataa accactgatg cacttttata tactttatat taaaactaa tctatggagc 180
tcattccatt ccatttaaaa tagtaagtcc tcacatattt gtggttactt ttacagtgtt 240
tttaaaaaag gagtactgct aataatttaa gacatcctaa agacagaata ggtgtgaagg 300
cttcttttta tatttggggg gttttaggta atttttaaga acttaaaatt attatttggt 360

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cctccttaat atgaaactct tccaaaatac cttctgacca gtaagtaa at ggtccttang 420
 cactgtgagg tggattaatg atgaacatga acccaggctg agaaagtgtc caattggatt 480
 taactactgg caaacagtta caagctctgc ttatccctga cacnggaaag nctttacccc 540
 ctcc 544

<210> 10397

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10397

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 tacattttgc tgatggagtg tgtgaccagg aatgaccctt tgggtccacag agctctggtg 120
 tatgcatgga ggtggggggg gggctatgaa tcattcctgt gtctcaggc ccaggatcat 180
 gaagtcacga ggttgaatgt agcagagtct gtctcttctt tcaaggctca taacaatgcc 240
 gcttcctcca ggaagcctcc cttgctttcc cagagacagc tgtggcttcc tgctctgggc 300
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 atgcctgaaa ataaaggccc ttctgggatt ctagccatgt ctaggcacag aggaggggaa 420
 ggggaagttt tgcagaatga ataaatgaaa aagctggica tcctttgaat taaatgtgga 480
 atgaaaaagt ctggttggtc aaggatgggg atcggaactt tggctgntt atnttggc 538

<210> 10398

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10398

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 aggtgacaaa tatgaacaat acttcaagat gcccttttta tgttacatta cagttgctgt 120

aactggtttg tattggtggg aaaatcccag gtactgcttt tactactgtg atttgttgcc 180
 agcatttata acttgggagt aaggctaaat ttcagtttca ttgctgaaaa taaagatgta 240
 acattttctt ccatcaagtt catggttacc cctggcttct atccaggta agaatccctg 300
 cctttaggga aaattctgga cataatcagg acactcctga agaggtttaa agaagaggta 360
 agacctcact caagaattcc cactgcagta cagacagact ttcattgntt ctttccttgg 420
 tgncttcang gttgttgcaa atccctcctc aaggcttggg tggccaggcc tcgntgatga 480
 aatgatattt tgnaaaccag gtcatnaaca agttccggtt tncgtgcatt gaccanttct 540
 gaggtg 546

<210> 10399

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10399

caggaatate cctagctgct ttcatatcgg ctttgatctg ctactgggtg acctgacagc 60
 ctttctcaca gctgctttcc tcgaggggaa actgcttcga ctggcccatc tgatgggagt 120
 tgtacctctt tcgaagtgga gtcttgccct ttcacttac tgacaattct ctggactgca 180
 ctgactctcc agttttttct tcacgttcag agtaacgccg agtaccgttc ttaggaatcc 240
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 ttgaggttgg ttttactaca cgctgaagac cactgggtcc tgcttggtcc tcatcaacat 360
 ccacaggaat aattgcctgg ctgtgagctg gagtattatt tccactctcg gccaccacct 420
 ctccatcttc ttggacgaag gtcttccatc tcatttaatg cgtcaactgc aaactgntgn 480
 tctctggctg caaacttgcc naaggcantc tcttggtga gcatctggat aagggnatgt 540
 ggccnggan 549

<210> 10400

<211> 140

<212> DNA

<213> Homo sapiens

<400> 10400

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gaacatgacc tgttgccctt tatttaaaaa ctgttactag ccctgcctgg ggctcctata 60
caaaaacaaa acacaaccta aaataaggtt tcttcctgac ccagagact ggggaggggt 120
agggaggggtg gggnnnnnnn 140
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<210> 10401

<211> 502

<212> DNA

<213> Homo sapiens

<400> 10401

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gggcaatata agaagtgacc atagggcatt ttaccactgc cccatgtgca atgcctcgat 60
ggcattccaa ttcattttct gtcactgcca tgaagttaca ctcttcacag cagtagtacc 120
ttttatcttt ttcattgggt ttagcatgtt gcacaaatgt tttagggcaa ttggtaccaa 180
acacacactg aggacactgt aatcgtgcac ttcttccttc atcctgaagt tctttcaatt 240
cacgaatttc ctccatcaac ttctgtcttc tctcctggng aataatcata tgtttttagaa 300
gtgaattgcg atctcgaaat gtcccgtcca cattctctac aagcatatgg ccttgggaca 360
ttaagatggc gaaagtgact attcccatct aaatgatnca tcatatgcc tgtnggaagg 420
tgcttcttct tccctaaaat tacaattgna cttttgntnc agggggtaaa aatgantggc 480
tctttcgggt acttgnaagg an 502
```

<210> 10402

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10402

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 aacccgctta actcctaaca ctgctcttcc tctacagatg acctaactgc ttctttcagc 120
 tcctggctgg cccctctttg aaatcccttg ttccgcagct cggagtagaa gtcgactccc 180
 tcagagacag agtggatggg ctgattatga tactgggtgg agctgggtcaa aggacccacg 240
 gtgggggctg cacttgacag ccgccgaggg aaacactgat ggtgatgtgg taggcagttc 300
 gggttttcct tgaagctctt actatgcttg cacttgaact ccagcaccat cctgggtgtac 360
 gtgttgaagg tggtagacag ccgacgccat gcagcaggtg aaggagaacc aaggccatgt 420
 agaangccca gcccataatt ncaaaccatgn ggctccaagt cttttggacc caagttgaca 480
 gtcgtttgga aaaacttggg aatncttcat gcggccaanc atttcccang anaacctgcc 540
 cgncccaag gaaaccgcn g 561

<210> 10403

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10403

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 taacaaaaca actaatatcc ttggaatatg aacatcctat taactgatac aaactgactc 120
 cacctttctt atagcagtga attttcaggt cacatacaat cagtaattta tactccaaat 180
 acaacaatca cgtttgtatt aatcatccag tacaattcac aggttcctat tacacaggtg 240
 gatgtactta gagagtttta gcacaaaagc tgatacaaat atgaaagtgt gctcagtcga 300
 atggttagtg aggtgctaca ggtgagtgtc ggcgatgggt atcctcctga gctccacgat 360
 ctgggagtca gtcaaggtgc cccctcctg gctgccttga ccagattcat tactactgac 420
 actgagacca gcaccagttt ttaatgcaaa tattaaatca tcaacttctg ggcttctcat 480
 cggntatcaa gtgaccctgg gcatatcctc caaagacggg accgggggtc cnttttgggg 540
 n 561

<210> 10404

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10404

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canggcacaaa aaagatatatt tattttaaaa acatgtttgt gggttttttt cctttttgca 60
ttcagtacat tgtcattcag acatcacaaat actatataca gatncacaac attttttaaa 120
aaaaagccta ttcctgatga acatttcaaa agaacactgt tttgtaatgc accagtggga 180
agggaagagg caaggggccc ccacagcacc aaggnggcct ttgaggaggg aactgttagg 240
cagcatctac atttagctaa ttgagggccca natcttcttg cctcttgaac tagatcctct 300
agctttcctc tggaaatcag taaaggtgaa agtgtgagga gtcattcctg ggctagtgcc 360
ctgatggaaa ggtgactgga cagggatattt gttgagggac ccactctcca tccccttgga 420
agaaaatgtt tacccttaga aaaaagttct gnttctggac ctggactaat ncccaacctt 480
accccctaga gagaganaaaa nganaagang ganccctttt ta 522
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<210> 10405

<211> 453

<212> DNA

<213> Homo sapiens

<400> 10405

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gaggcacctg tgggacttta ttagataaac acacaccagc tccagccaca ggcttggacc 60
ggccagctga caggggcgcc tcagacaccc ctgccgggtt ccgtggcccc tggccatggc 120
tggaagcagg gttcaggccg cccacttct gtctagtcct ggcaggcccc cctcacctg 180
gctctgctgt gggagccgag aacaaagacc ccgcctgccc cactccttct gccccagggg 240
ctcagccagc acccacctn acagtggcct gggcaggggc tggggtacaa agcctnacc 300
tcccctgtg agccagacgg aaaatgcac tcccaagagt gtctcgagg gcaggaagga 360
ggcctgcccc tccctagcca gtgcctacaa caggggggtgc cctggggggc anaacggccg 420
accgncacca canganatcc tggggnanan aag 453
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<210> 10406

<211> 523

<212> DNA

<213> Homo sapiens

<400> 10406

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agcattcctt tatttttagaa gttcacacct ataattttat aacaatcgtg aaaatgttac   60
tcagaactag atgttttgat gacacatagc agaaatctgt ggttcaagat ggtcattgca  120
aacttaacca atctcagcat tctattctgc cttttgtttt gattgcacag aatcaatata  180
attctgattc atatggaaaa taacttaata tcttaacctc cgctcaggat cttcatcata  240
aatgtaggtc agtacatacc taaaaattgt caatgatcca acatggtcac atgtgacatg  300
ctacacttgc acctagtagc aaacaagctg atacttcaat gagatctggt tggcatatac  360
acccaagcct tgtctgtccc ctgagagcac tgcacacaga tagtgaaaga acttgtgtca  420
ataagaaatt cacagggatg aagctgggcc cagtgtctna cgctgnaat ccagcacttt  480
cagaaggccg aancaggngg atcacttgan ggncaggagn ttc                               523

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<210> 10407

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10407

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aaaacaaaaa aacttcattt atatacagtc agatataaag acatctcttt gactcctgtg   60
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ctgccctatg gcagggccaa ggagaggatt gtcacttgaa agtgggaaca cttaaattga  180
tgacagacaa cactggaccc acagaccaag agcattcttc taagccctgg agtagctcga  240
ggaatggaag agggaaattg gaagcagggt cccttttcga tcttcatgtg aagagaccca  300
gcctcttcaa gggatatcaa gataaacttc cgttccccaa gcccaccaat ccctgtccag  360

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ttcctttgct tcctgccctc ccaaatagga cattctcctt tgtgccccagc ccccttttgc 420
 acagatcctt caaggggagt cccatgatcc acaagggcag agacctttat agcanaaggc 480
 anggcaggta cacactatct ctncctatgc atgggtgggc actgctgang gnccttggtc 540
 angaaatccc aaa 553

<210> 10408

<211> 286

<212> DNA

<213> Homo sapiens

<400> 10408

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 attccaaagg tactatttat acttaaggca gttttaaaag tgaggtctta accaaaaagc 180
 ctttacatgg cattcaaaac aaaaacaaaa acaaaaaaaaa cacggggggg gggggggcact 240
 taaatntntt ggattgnctn aaagagctna attatgnacc cnaaat 286

<210> 10409

<211> 508

<212> DNA

<213> Homo sapiens

<400> 10409

cctccggtag agatgggggc tccctatgtt gtccagactg gtttcaaact cctgagctca 60
 atgatcttcc tgcctcggcc tcccaaagtg ctgggatttc aggtgtgagc caccatcccc 120
 ggaccttttc ttttcaaaac atacataaaa atggaaatga ataggaccag ccagtggctg 180
 tgatgcagcc aaaacgccct gtctggaaag catgcgtcta ggtaatcttc ctccgctttg 240
 ccaggcggtc tgaggtcttg gctggaggca gcgggaggga cagggtgccc agtttgtgat 300
 cttcttcact gccggcggcc acagacaccc ttcttttggga gatcttcagc ctcatggctt 360

tggtatctc catcatcctt ttctactga gcttcaagtc cctctgtaac actgtcaggt 420
caatttggaa gtcatgtatg tgcaaggcaa gntgatcac atatgcngna atcttcgcct 480
tnatagaatc cnaaaattaa ntcccnaa 508

<210> 10410

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10410

atacagcatt ttccattggt gctgctttaa gctttgtatt gtcatgctcc attgtagatt 60
cagaaagatg aacctgatta tctgacacac attctgtttg attaagcaaa ccaggtgggt 120
tattttctaa gactacaatg ccttcaacag attcctcagt atttttctcc ggctcagatc 180
tcattaaggg cttagacctt ttattccctg tttgttcagc tttaccagct ctccggcttg 240
atctcttagt tccattcact attttttcag aatcagattt tgaaaaagtc ccttctcttt 300
gctttgcttt tggtagaaaa tctgttttaa tcatggtttc ctggttattt ttcactgtaa 360
cagttgatga aatattattc aagggggatg gactaaaagg tctattttct gaaccatcaa 420
acttctccaa agtaataaag gtttgccctc gacttggtag ggtatngggg gaagttccag 480
caacaggtgg tattaggaaa ctggactact gntggcaacg aaggaatttc tggctagatg 540

<210> 10411

<211> 520

<212> DNA

<213> Homo sapiens

<400> 10411

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aatacttnat gtnccatga aataaaacag gtagggaata tgtccagngc aaacagagga 120
ctcacacctg tgcntanaca gcaccatcca ctgattgtcg ctgcagtcca cggcggttact 180

aagcctgcgc cacccacgtg ctgccccagg aggcgctacc aggctnttcg ggccacaggc 240
 ctttcctcca ctgcatgtgg cggcagggcg ggtaggctgc agggctccat gattgtgggg 300
 cancttcaag ggcnatggg gcaaaggccc tcgaaggctc cctcctnagt aggggatgtc 360
 attctgatag tactggatca tgttgtagt cggntcctg ttgctgagga agcagctntg 420
 gatgaccttc atgatgaaat ttgcaacctn gggctcagtc atgttggggc taaacctgng 480
 ctttaaanaa cttgattgcn tggcccnnaa aaccgggcnt 520

<210> 10412

<211> 531

<212> DNA

<213> Homo sapiens

<400> 10412

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 acctcggagc cacaagctgg gaaaagataa ccacacccac ccagccagct tccccaccc 120
 ccagctgttt ccaggcctgg gactggagcc ctgctgagac cttgtccac atctaggacc 180
 ctctagggcc tttgggcaca gacaagtagc aagggcctct gccaggaaca cctagaggat 240
 gtccagctgg gtgcttctcc actctcagtc tgtttgtca aatgtggaat tctaaccct 300
 ggccagtttg catcccgggg atccctgaag agatcccagg aggggagtc tttgtgcact 360
 gaaggcgtgg aacagggcac tggaggagga agaccagag ccctggctct naagacaggc 420
 ctggcttcaa gcacctggca tcctttccaa ggagaaggaa gcctgatgtc tggattccca 480
 ttttcttctg aatgccagga acaccanaat gccctgtgcc ctttgaaga a 531

<210> 10413

<211> 458

<212> DNA

<213> Homo sapiens

<400> 10413

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 ttgtcttaca gaagactcgg attcaaata tgactctttc cctcagtagc cagaccactt 120
 actctgtacc tgtaaaagga ggtatgcggt gcttctaaag catgcactgc atccattcat 180
 tcacgtggtc cactgggtga tgacggtctg tcctcccctt aagcaaaaac tggctctaag 240
 ggacaggtct tttcttcacg caaaagggtga gcaatgcccc cagcctttca ttctagaaag 300
 tgatgaggcg atgattttgt atccacaaaa tgcattatca aagctcacca ctttagtggt 360
 catttactaa agttagcaga gatctagaat ttgaaaaaaa acagtttanc aatgngaaat 420
 aactccnctt agcaaattca attaangnaa ctngntca 458

<210> 10414

<211> 533

<212> DNA

<213> Homo sapiens

<400> 10414

ctgttaagat actttatittt ataatacaaaa tacgcaatac aaacaaatgg acataacaaa 60
 gattcatata aataactggt tataaacttt atgaggaaaa ataccgtca gcatggtggc 120
 tgacttgtagc tgggtactct gaactttcaa ggaggccaga gcaggaaagg gaaaggaata 180
 acccccacca cccccaacac aagagaggca caaattagag ggctgggcac aggctgtagc 240
 cctgggtgag ggggtaagca gcttgacagt tgctctgtgg tctctgggat ataattctgc 300
 ccaaggctag aaccacagag aagagtttgc actcttaagt ccaggaaggg gactacctgg 360
 aaggcctgag aacaaaggag aaagtttagc acactaaaca catggccagg accctaggga 420
 cacaaggcaa ctggagagtg ggatctcttg gtaaatggca tggtaggcag attanagtcc 480
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<210> 10415

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10415

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gacaggagtt gaagttttatt cttggaaaaa acaaagtccc atcctcccc cattgtctaa 60
gaaggttctt ctaggaggcc ccgcccctcc aaatggatcat ttctcttttc tgaccccagc 120
ttccaccaat gccgttaaga tgccgccact tgggtgaggg gctcctccag gtactgcacc 180
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agtgatccct cgttattcag cancaggggtg ctctggacgc cttcagtgtt ggcttggctt 480
aacacctggg tcaaancctt tgggccaaaa tgcctacggg tctnaacctn ggntttttgc 540
cccaa 545

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<210> 10416

<211> 401

<212> DNA

<213> Homo sapiens

<400> 10416

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gctggcaact cagtctttat tgatggttcc atttttgggg tcaccagtgc taagaggtgg 60
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taaatccaat ttanaactta caaggtggtg gggatgggaa gaggaaggga cacagtatgt 180
acagatgctt aaggggatgc tggagggcct tcagcaacag ggaatggagg tgccaaagag 240
gaagtcgggc agagtcagcc actgatctgg accccctcag cctcggccag agggtagatc 300
tcaatggctt ccaccagggg tagcgcttcc acagcagtct ccatgacggc caggccaacg 360
gcagcctccg cctttgccan ctgntgcenn ananngcctg a 401

```

<210> 10417

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10417

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gtcaggaaaa tatctgatct gattcttccc agcttgcttc ccctacaact taataagccc   60
ttcactaacc cctgtatgta ttaactgcaa ttgcctagcc cggcatttac actctcaaaa  120
gatttaacgc aattacaatc aaaaaacact tgtcatatat aacacttttt cacatggaaa  180
taaattggtg gtttaagggt tacaattcct ttgaataaaa tttcagttat tagttacaaa  240
atgctaagac agattgaggt ctcaaagaaa gaacttgaga aaattatggt ttaaaggact  300
tcacaaatat gaagcataat tgtagaatac ctgatacaaa gtaacttttc ctaggtttta  360
ggttcaagtc tgaattcttg aattgtccag catcaacgag acctcattta tattcttttt  420
atztatcat tactttcaga ttcagggtct ctgctatatt tgcccaagct ggactcctgg  480
gctcaatggg ancctcctgc ttaacctccg aanggttgga ttnnaggctt gcccatggcc  540
cgggggttaca aatt                                     554

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<210> 10418

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10418

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atacttttgt ttatctacaa cccaataaca gacatgaggg atggccctgt ctctctggga   60
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ttagagtcac tttctggtat cgagcgacca caccgaggag cacaccctgc ttccaaggct  180
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gcacagtgcc cgctttccag ttacctgacc caccctgagt ccctattcca ttttgctcgg  300
ggctgacctc agacatgccc tgttggtcag ctctgccact actcagaaca ccagcctcag  360
cttcctatg tccccagat tcagcagccc aacanggatt gggggaaatg ctccacatca  420
ngtgggtngg tggncctgggt ccctgnaaac tggactggct ttttaagcca tttcaggaac  480

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acactaacan aacaatggcc cttaanccca aggggatgcc aatttttccc tgggnnttttg 540
gcc 543

<210> 10419

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10419

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aatgcagggc cccagagtac tcagaaaggg attagaaaat aattacaaaa atattttgcc 120
acatattaac atgaaactac aatcactggc tgtaaaatat agtcaaatgc aatcaagctg 180
aaaagaaaag gtggaaatct ccaggttatc tgcccagggtg gcaggaaatc gacagccccg 240
agaacgcaag tgctgctgtg ccgccaggcc cagggtatg atccaaagtg acgggcagac 300
taccggcctg caccaccca ctccaggctgc acacaagaca gccagcttag gatctccgtg 360
ggctgctacc tatgtcacag agggctgatt aagggttgc agtggtccca aatagggcct 420
ccaatgagan gagtggaaac tgcattacaa gaaattcact ggggctggac ttgactcttc 480
acttggcgag tctnatgang cactngncct tcaatggctt ctggcantta atgcttccgg 540
gcattanggg cctttt 556

<210> 10420

<211> 525

<212> DNA

<213> Homo sapiens

<400> 10420

ggtgatatat acaagaagtt acagcagata tataaaggga agatcagaag cctgctgtcc 60
aagttcatca ccacttgctc ctgacccctt tcaagtgtaa gtatttgata gccagttggt 120
ctactacata ttagttttcc actactatca aaagaagcca aacgtaatct aaatgctatg 180

ctccttcgag gctgtaaact gacagatccg ctacatggct gattcagtgt attgcgtttg 240
 aaaatgatgt atcgattggt gtaagttaca agtaggtcga agccgaagtt aaaacctgtc 300
 caacgccagc agtattcacc atctttggca agctttctac cacacctcat gctgtttccc 360
 tctagttctt ctttattgat ttcttgaggc cccacctcac tgcctgttc tgcccgcagc 420
 atagcaaacc actgntgggt atacncagaa gaaagccatt ctgaangnac tacagcatct 480
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<210> 10421

<211> 535

<212> DNA

<213> Homo sapiens

<400> 10421

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 agcaattaat gacctcccca aaatcacatt atcatcaaca agattttttt ctaaaagtta 180
 cggccaatcc aataacaaaa aaattcacag ntattctgca nacattttaa agatgcagga 240
 attgnattgc ncattatata attataaacc ataacaagca gttatatatt ttaatctagt 300
 tttcacaaa atttacatta tcatgcaata cttcactgnc acagaatgat ggaactagaa 360
 caggttaact tacaacttt taattatagc cccaaattta gaattatttt aaaggtatat 420
 ttcaaattat tatnctaaaa aaacnctcca ggggaataaa acnggnccca tcataatttg 480
 gtcccaggac aaaatacctt ttttaggggg ctctttggct tggccttctt ttcct 535

<210> 10422

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10422

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aacaggcttt tagggaactg gacacacaga ccagctgtga ccctgacttt cacattgatg 180
ggtgaatggc aagtaggagg taatgaaatc tggaaatgac aggggagaga aggcaaagct 240
gcctggagtg tcagtcctcg aggcatattgc ccctctcccc cgggggccag ccagggactt 300
cccagttcag gaaggccaca acacttgttg cacattaatt ccgagcttgg cccggcttct 360
ttcctgtgcc ctctgcctct gtgggcaggg gaaggaggaa ggtgtgtgtc ccttaggatc 420
tccaagtgt cttccagctt ccaggagcan ggctgagatc ccagagtcag tgccatgaac 480
tgtgcatttc actgagggaa aagggangtg tggnttttgg actttgcatt tcacacanaa 540
cccccttg 548

<210> 10423

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10423

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aaacgttaag cacttctcaa gtaacatgat gtggaattac actttttgct cttacctctt 180
ttaggtacac acgtattatt caacaaagca aaactatatt acagtgtctg ttaacaaaaa 240
gttctctatt agatagaaga aactacagta tcctgaagct atttcccaa gagctagttt 300
agtagataga cctttgggcc catcttattt ttcttctttt ttttttttc agtaaggtaa 360
ctttccatta tgcacatact ataccatcat cattcattgg gtggagatta gctgggaagt 420
agctgnatat ttttagggga gacactgatg gcatggactc tggatcgtgc tgtgcttatg 480
ggtaaacata tctaattgga aattcgaatt acatncanag cttccggatc aaagnccgac 540
attttcaa 548

<210> 10424

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10424

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acacaataaa tatttttatt tttaaacact gaattgtaca tctttcatat aaaacatgag   60
attctagcct gttttaaaaa ataagtatac ttgctagtagc tatcttcact cttttttttt  120
ttcagaagcc aatgtttctt aaatctgcag cttcattcca cagctttaca gaatcataat  180
ctcttgaata tatttccaat gttattaaaa aataaaaaaat catacaagat atatttagca  240
cattaaaact taagagggtta cagtataact gtccagacct ccaggtacca ctgaatactt  300
ttccagtaca aagaggccaa tatgttagaa taattaattc tctgtattta cttttattaa  360
aaagagggtt ttggtagtaa gaacaaataa tctctcattt gttgcctgaa atcctaaaat  420
aggatcattg gtttctaggc ttgctacttg ctgcttagca acctgtccta cttgcctggc  480
cttccttctg tggaaagtac agtggacatg ggagcaggct gacgatngat gaatactcga  540
cgaaagggn                                     548
    
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<210> 10425

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10425

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aaccacatca ccgtctgctt ctcttgcttc tagtagtgat aaactatttt gctctttatg  120
gataaattca ttcattctct ttgtaaccct ttctgtttgc tgcttttctt cttccatctg  180
tttatcatgt aatagctgct gttctttttc ttttctccaa aaagcttcct gtttttgccg  240
gattcgatgc cgtaattctt catcatcagt gtcagatgac tcagatcctc tgtcactcct  300
ctcatcttca ctgtctcctg atccataacc acccagtcca ccgagtccag tgagggaagc  360
cagtgcactg gactgtgccg gctgttttgc aggagctttc gttgctttgc ggtgtgcatc  420
    
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tttggtacg taataaaatt tcttcatctg gggacatcca gcagaaattc tggtaaaagc 480
 attttggcag cacatcattg gatactcttc tcccttaagc atcttaaggg cactgggctc 540
 ttcttgagga actggga 557

<210> 10426

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10426

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 actggctcag gctggggctc acagaggcca ctgcacatca gctccaggct gcaggagcca 180
 ccacctggcc atactggctt cctccctgac gcagcacagc tgtgcctggg acacagagtc 240
 gctctcaagt actggagcag ctagcaagct cactccccac tctctcact tatctctgtg 300
 acaatgtcta tcaggctctg gagcccgaag atatagccag catcctggcc ctcatgcacc 360
 acggtgtcct cgccatacag cctgcagggtg gtgtgtgcaa agtcgatcat gcgcacatct 420
 acagagctgg cgcccgatgg gtttgtaggc ataggcacca gcagactcat cagctggatt 480
 cctctgacan gnccttccaa tccttaacat tctgagtcca ggaaccactt tngggccggt 540
 ccttggcatt atnaaangac cn 562

<210> 10427

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10427

ggagacaagg tctcaccatg tcaccagtt tggagcgcag tggtaacaatc tcagctcact 60
 gcaacctccg cctccgaggc tcaagcgatc ctccacctc agtctcctga gtagctggga 120

ccacaggtgt gtgccaccat gcctggctaa tttttgtatt cttgggagag acagggtttt 180
gccatgttgt ccaggttgt cttgaactcc tgagctcaag cgatctgcct gcctcagccc 240
cccaaagtgc tgggattaca ggtgcgagcc attgcacctg gcctaacaac ttgtatatct 300
aagaatagcc tgaaaataat gtcagcatgg gctgtacttc cccaatttta ggaaaggaaa 360
gaggaactaa aattctatct cagatatgag cctctgaatt tcaaaaaaaaa attgggagaa 420
aatagacaac aacaagacaa aaaataatac actttgacct ttgggcttgg ttagctttc 480
ctggaaataa gggngctttc tctttgnaat cagatgacaa tgggaanagc tgactggggg 540
tnggaactgg ttan 554

<210> 10428

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10428

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cgtacaaaaa atagcgacgt ctacagggcc cctgatgggg ctagaagggt acagtgcccc 120
ccaccctcac cccttgtaca aaaataaact ctcacgccta tggaccagca aagactggca 180
gagtggctcc tcaacaggga cacaacctt ctctgccagc ccagggaccc cgttctttga 240
ccctcacctc tgccacttct aaggcactgt gactcccttg ggctgggtgg gtaccgccag 300
cccaccctcc tacgcccgcc ggccttcca cctctggtcc gcctggggct gggatatggg 360
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cggggtaaag ctactaagc taatcgcccc tganggcca ctaccgttnt ggccccccag 480
cctggctttt ccgggtctgg acaagcccgg aagccttctt cccttctgca aagactggaa 540
ggggctttct gaaggg 556

<210> 10429

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10429

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ggctttgaat aatttttact cattatatca tttatcatag cataacagcg tacattccaa 60
aaaggaaggc ccaacataaa ctgagaaatt gaatagatac atccataatc cctttctatt 120
ctaatccata cacaaatatt ttatcataat ggtttttagaa gtgaatatta tttctatatt 180
cttttccac acttttctact atatatcata gacactttcc taaaattcat aaaatcttca 240
catgtaacaa cagcaagtgc tgtaagggaac agattacaag ctatctaatt ggaagatcat 300
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gangtctaac actggcagtt ggcttttggc atatgaattt ctctgaatca aggctgaagt 480
gctttttgca nggaaaaggg cccgatttaa taatttcata gggaaatggg cttagaatc 540
aggnttacca tgggtntggg at 562

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<210> 10430

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10430

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ggccccacat aaataaccag gttgctgagc cagagtggaa gtcagggctg ggcctggcag 180
ccgcctgcac tgcccagaag cactggcacc acagggaac agaaaccact gaggcccaag 240
gtgtgctcca gccccacaa gtcttctccc taaagctcct gagatcttgg ggctggctgg 300
gcaggctagg gctctgtatc acagtctgc tgggatcaag tctatTTTTT cagtttcatt 360
aaaaacagct gggggagggg caggcacatg cattaagccc cttccgtagg cagagccatg 420
gatggacaag ccccatgggg gcctttgaag gcanaagccc tggaagcaca aaaacggggc 480
ttggataaag cttctaattg gaagggatgg tanagcccaa ntcccaatc cccaaaacca 540

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anccagaanc tncaaagag

559

<210> 10431

<211> 533

<212> DNA

<213> Homo sapiens

<400> 10431

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ttaacagata gatacataca aaactcagcc tgatcagact gggtgtgagc ctgtaatggg 180
gcatggggca ccagccttcc caaggggtag cctcaaggag ggaggggaaa gggggggtaa 240
aaagaccaca agaccaataa aaaaaatcag ataattagac acagattaac tgtaaacagt 300
tctctctctc tccagtgaac aaaaaagaata agcttccaat gccaaactcca tatkagaatg 360
acttccaccg ctggcttgtc ctgctgccat actcgcgggc tcatgtgggt ggcaggcaga 420
ccccaaggag ccatcacggg caanggtctg agttggatta cgtcagatct gggngngtgg 480
tgtgtgtnaa aaaatatgtg gggngaactg ggnttgaagg ggntttcttt tgg 533

<210> 10432

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10432

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ttttaagctt gaaaaagcct ttcaaaagat ctaatacaga atttccaaaa accagtacga 120
cttgcaagac attctgtgga aaaaagtttt gtgaccaaac agatttgga actgtcacag 180
gtaatgctat tctccttcca gatttccaca gcaccgggca tattagaagc tctgagaagt 240
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gtgacacatt gaggtcacac agagtaccac atctgtcaaa ggaaagatca acaggcaatg 360
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 taattattca accgtaagca gaattatggt cagtaagccc cttaccaatg ctactacaaa 480
 atggaatgaa ctattatctt aataattctt taaaccccgt tttttaaatg gtaaccccaa 540
 ggggccaaaa cctggn 556

<210> 10433

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10433

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 agtattgcaa cattcaaact tgacttataa caaaagaaac aagattgcaa acaaaaatgt 180
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 tggctagcag gaagttaaca gagtgtaact tacctggaaa aaatcttta tgtacaaata 300
 acaagcccaa attatggact gcagcaattt aatcatcact gccatttttc ttacttccaa 360
 aataaagcct tgattaaacc attcataccc tatattactc atacctttac ttcagagatt 420
 gaggaactat atacaacaaa ttaatttatt ttcacatag ggataacata ctgnacctct 480
 ctgccaatgg tacttgaaaa tcttccatgt caaaacaact tgacagtaga tntaaccatt 540
 caataaatat gccatggacn tt 562

<210> 10434

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10434

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 tgtttgaaag catgaatctg cagtctggtt gcctggggtt tgaatcctag ctctataatt 180
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 ttatcaagaa tacttaaaat atgactggtg aggtggtgag gtcaaactct agccctgcct 300
 gagcatgcat atactatact gctcccacct gcccttggac tgccttccat atctaaaatg 360
 nattcattct tcagattcca gctggcttgn ctactgccc ctgaggaacc cctgctttca 420
 acaactaatc aagnggatag actttatggt cctctcttnt agcaatgacc ancttccctg 480
 cntngaggca tacaagcctt tcctttttta nccctccggac atacccccca atttgnccct 540
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<210> 10435

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10435

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 aatcaagaac attaggaaaa tttttttgca aaaatgtcaa aaaaaaagat ttgatctggt 180
 cgggtatagt ggctcacacc tgtaatcca gcactttggg aggccaaggc ggggtggatca 240
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 aatacaaaaa ttagccaggt atggtggtgt gtgcctgttaa tcccagctac tagggaggct 360
 gagccacgag aatcgcttga acctgtgagg tggaggttgc agtgagcccg agatcgacc 420
 actgcagccc agcctgggcg acagagtaag actcatctca agagaaaaaa aaaaaggatt 480
 tgatccaacc caganttcng aaaaacaaa cccaaaaccc tgggactngg tacattatta 540
 aatnngggac nccgnnaaaa c 561

<210> 10436

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10436

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agaaaaataa aaaatttcca atatgtagtG ctgtgttata cctgcctctg ccatgcagca 120
tcatagcctg tgggaaccag gagggttcc cttaccaccc agagcagagg aggaaggtga 180
tggaatatgg ggtgagggga ggaacctggt ggccccctccc tgagatggcc agaaagccct 240
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cccaaacttg ggccaaatgt tgcccaaact tgggccaaaa atgttgccca agagaccnaa 420
ancagaggaa aacaggttcc aaatctatgg agatcatgag cngaaatctt gangctttga 480
ataaagggtc taaaagggca ggaactcttt gggngggcca aancanacgc ccattcccaa 540
gggctttcat tggaatgggg ggnaaggctt gttnn 574

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<210> 10437

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10437

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atgtcctTTT ataaaaggaa cacagcatct gtggatttag gtatgcttag ggggtctgga 180
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gaaataaaat taatgaatgc ttttccacat ttatagagta tctctccagt gagtcttttt 360
atgtctatgc aagggaactga gagaactcag tgccttccca cattccttac attcatgcat 420

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cttctcttca gtggtgagtt tttcatgtcc tcgaaggaaa ccgagaacca ntggaagctt 480
 tancncattg gtgacattca taagaattcn tttccagggg gaatcnttca tggccccaaa 540
 aggcaanggn cccaaaaaaa gc 562

<210> 10438

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10438

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 gaaaatttta gttaccaa atttcagaaa ttttaataaag cattacatat atgtaattag 360
 cacttatcta ccaaaaaaac atatgtgtat gtatttattt atcttacctt cactgaagtt 420
 ctttttctg gctggacatg agaaacagga ttaagtgatc aatgctggct ttatttcttc 480
 ataagcagta atttgggnct ttttcattca acacacgcag catttcataa taaattccca 540
 aaggccattc ct 552

<210> 10439

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10439

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cagtgagttt tgcctcaggg aattttccag ttcaacccca tacaccaaca tggaataaat 180
 ggaaacacta gccttttggg ttgcccaca gticcaaagt gctattacag gcggaatata 240
 tgctgcagga ggtcattctt gctgctgtgg gtgtgagtaa aatgcttagt tccttctaaa 300
 atcataattg caatatggac ttctgcttca cgctgcatcc taaggcaca atcaggtaac 360
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 ttactcctgg gccccagaagt tgccacatag gtggccttggg ntacttgggtg ctccagcaca 480
 actgggcaca nggcccaact tgggtgacaca tcaattcctt naatatgtga tncctanaa 538

<210> 10440

<211> 523

<212> DNA

<213> Homo sapiens

<400> 10440

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 ctgggcatct aggacagggt cttttaacct gtcaagtcag ttccattatg gccaatcttc 180
 tagcagtggg tggggatggg gagaggagag ctttgatttt tttgtgtgta gaagaacttt 240
 ccataagcct gtttggctca tggacatatt ttacaatgta acctccctca gtcactcaga 300
 ggggatcaag aagggccccc taaaaccagg aggacagatc tagttgggca gcaaaatctg 360
 gctatttcta gaaatgctcc ctcttcctgc aactgagcag ttgtccccta caagccacta 420
 aagcccccaa tctttacctg ngaacccatn ttctgactct ggggaatgcc tgcanaagcc 480
 tggtagggga caanccgtca aaagntgatg aacntgctn ggg 523

<210> 10441

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10441

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tgaacatgt attattacta tttgggggag agggggactg ttcattttac aggggacaag	120
caagacaggc tcaaggaggg aaaggacagg ctcaaagtca tcacagtgtg gggctggaat	180
gcagttgccc ttccttcttt ctttttgac atcttccgtc tctagggtga ggaggggtgt	240
aggcacaggc acccaagaca gccgcggtcc agccccggcc ccacctgtgg tctcagtac	300
gccccagagg ccccatcttc cccacataat gaggtgctc catcctctc aaagcccaga	360
cctatttcat aagccccaga cccaccttc acccagggcc ccaagagaac agagctggag	420
acacttctac tcttagcact ggatgccttc tcccttctgn gaactgtang tgggggggtg	480
gaaggcaccc ctttaagcan gtcggggggg ctttgaactc caagactctg gaaaccnnta	540
naaantggga agg	553

<210> 10442

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10442

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tcaagttcct ttaaaagaat actcgattc ttatttgctt ctgcagcttg ctggtcttta	120
gccttcacaa tggtttcgac acattgatga cattttttca acagttcctt atctgtaatt	180
gttgctatgt atctcatgca ttctatatca gaagggaact gatttacttc ctttaccaaa	240
tattgaacaa cttttacatg acccttgcca aatgctgaca taagaggtgt gattttccgg	300
ttatctgtg catccacatc agcacctgct tgcactagca actgcacaac atcaaatga	360
cctccattgg atgccagcca aagtggcgta tttccctttt tgttacgaac atcaatgtgg	420
gtccccctat gaatcaggga gttcacaaaa attgnagtga ccttggtggtg tgctatggtn	480
aaagcaagat ctttgaagga aggcccaggg gagcntaaca ttnntcctta tcaagaagac	540
tnttcaacct tgnatccctc ana	563

<210> 10443

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10443

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attaaacaaa tatttattaa ccggcccata aaaataatga agttactcac actgagtcct   60
agtccattct gtttttctga ttgcataag caaagggtcta agttctggag ccaacccttc  120
agaggtcttg agaatgaatg atgggtaagt ttatttggac aaccagaagg acttttcatc  180
acaactgaag ccattttata atgtagaaat ttctttttcc tattttaagt aaggaaagtc  240
cattcttgag aatatgttgt ccaacaatta aaacactctc aggatttggt acttggtggt  300
gatttatgct gactccgcct tctgttatca ttcgataccc tcggggacca tctggaatgg  360
catttgcttt gcggcaagta tctaggacac ttgttccagg atcgagaaaa aattcagaaa  420
atggagcttc tttaaacaac tcttttaact cctgacagac tgaacctccg gggctttaat  480
ctctggggat aaaggcttgg ggacccctt tagcagaatc caatcntttt ggccatgacc  540
agcttggtc                                     549

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<210> 10444

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10444

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cacttgggga gctgtcacia ggccaggggg ggtccatntt tgggcctgtc gtggggcagg  180
cagcaggtct gcaaggactc ctcagggccca gtcctcactg gaatcagggg tcaanagcgc  240
caggtctgcc tgtgtctggg tctcatcggc aggctagtgt aacaacgtga attaaaactg  300
ggcatattcg catganaaaa ctggagctgg ggatggctcc ctgagctggg gacctagaag  360

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acgctgctga cagatgggcc ccttcatggt ggggcccatt cctgaggtaa cgtgcaaccc 420
 tgaggctggt cccaacggaa ggagactttt ccagcagccc caggggccag tcccacacag 480
 acnggaattg gaagcccttg gcaacaagtc angggacccg ggaaggcaac cctgacc 537

<210> 10445

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10445

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 ccaagccctg ggcctgacag gagggggcca aagagggggg ctgcctaagg cagggcccag 120
 accccacagt gtgggcctct ggagctgtgt ctttactctt gctgccgatc aatcccatgc 180
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 tgtaggtgac ggagtcattc cagcggcact ggaagaagga caagccggct ggagtcattg 420
 nttcttgng nttcttgnaa aaatcaaaag tgccgaaagg nccctgggcc nacttgatac 480
 aaggtgaagg gccgtcgtnc ttaaaagaat caatcggt 518

<210> 10446

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10446

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 ttctcactaa aacacagcta atacatgttc cttaaattcat gaaggtaaag tgaaaaaact 120
 aaatagtttg atgaccttag agaaatcatt tattctctct tatactcagt taaatgggag 180

cctggttatac acaatagaga tgagtaataa tgaaggtaaa atgcctggta aaatgcatca 240
 cagtaggcac ccatcttatt atacacatgt caataaaaat aagcatctat tttttaagg 300
 aagaaaagaa atgcttctta ataaagctct ggatgaacca tttatcttct ttcaaaaaat 360
 gtaaaaacac ataaaaaagc attatctgac aaagaaaagt agaaaagatt tttatcttta 420
 attagagttt gtagtataca cttactttc tgtaatctgc agtgatgaat ctctatgtaa 480
 acattcagaa aaagagcgaa tactgggtca tgacttatga actataaatt ttggcctgga 540
 tactaggcca gnacnggttt atacnttn 569

<210> 10447

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10447

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 agtgaacaag ttttggaag tgctgctcca cggtgggccc ataagagtct tgtaaagata 180
 gaaaagtagg ccccaaaaac aaactctttc ccaccagcca tcagttacta tcttcaaac 240
 tgcagtgtgg gctcaatgtt gtcattctgt actctcctgt cttcagcagg gtttatggta 300
 ttttccact tgctggtaaa atctcctgga agaataccct gcctggaaaa agttcactgg 360
 agtcagaaga tatttgagtg ctagaccct gaattcagta gctagaanan ggggtgccctt 420
 gctgctgtgg gacaggggag aaccatggnc catccaggca ctctgattcc tggggnittct 480
 ggccatca tcatcttcca tgggtnccaa gggggaccct aaaccaattt cctcccgggt 540
 ttttgagaaa naaaccc 557

<210> 10448

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10448

cagggccaaa acgttttact ttccatttga atttacaacc atatacagac aatatggtaa 60
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 aagggtgcctt ttaaaatgcg gctttttaga atagcatgtg ttgtttctgt ctgggatcta 180
 gatcttgtct gctacaaaac aaatgaacac accctgtgta acaaaatcga attttaacat 240
 ttaaactcttg attccaatat tcctgacctt tctcttgtca tatgaaagaa agaagccttt 300
 ttttaaaaca aagtttcaat tcagaatttt tacaacaaaa aacaatcctg cgtctactta 360
 atatccctgt atatcctcaa aaagcaagtt caggaaattt aaaaatgatt tataaaaggc 420
 actgaagtta gcaaaagcat tgggtgggtt tcatthttgga ttaaactactg gaaatgttca 480
 cagagaaaca actgtgtgag ccagttgccc gtaacaccca ggaagaaccg ncttcaggca 540
 gcacctctgg acacttagcn g 561

<210> 10449

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10449

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 atccacccat tcgcacggct gctccaggag ggcttgccac agctgcttct cctcagggtg 180
 ggaatccatc cagggcacct gcagcccata gctgctgccg gtgccaggc tgaggcgtgt 240
 gccccccagc tggcggttgg ccaggggccc atgggtccag agggagagct cggcacaagc 300
 ctggcgcagg tcagcaggcc caaagccatc gtacaccatg gtgtgattga acacagggt 360
 gaggtgtcgt cgcacaaccc ttgtacgctg gcggctggcc tggctgtcat cangcagcac 420
 gaagcattgt acctaagtgt ccanggatcc tgccgcaacg gcangangtc ccgaacctct 480
 ttanccaaaa tgcagnttcc cgthttggggc aanncttgg 519

<210> 10450

<211> 453

<212> DNA

<213> Homo sapiens

<400> 10450

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tttccagagc acaggggtgaa aggctaaagg gctaggactg ggggtgggggg agcaggaggg  180
catggcagct gctggctctg tcctcccagc ctgggtcccac cntcctgcc gttctccttg  240
ggctcaaggg acacacattc gttcaaactc gacgggcaaa gccagggcct agcccactct  300
agccgcaggg tcccctccct gagggccctg gtccagcacc tgggtttctg ggctttttct  360
ggctganctg gagggcctag ggccaagccc actctccgga gggctggaaa ccaccnttn  420
aggtggncan tggggcncgg ccanaacggg gga                                453
```

<210> 10451

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10451

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atacctttta ttttcgttct gttgaatcta cattatacct cacattctct tcctatatgt   60
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aaactattac aattgttttt tcatatgcaa gatggcacta gcatcttccc cagaaaggga  180
aggaagaaaa ggtctcattg tactttctct tgaattctcc tttaggggag aaaagtagaa  240
ccttacagct gccagcaatg caaatcttcc cattcatgga atctgggaga agaatatgtt  300
ctttataaat tcacatgaga caaagatgcc aaccagatgc actgattgta gaggtattaa  360
ttttattcaa ggtgacaatt aggccttata aacctccctg ataactata aaaatataaa  420
cagtggtagg ttttattttt aagtgggaga agtcttggct aggtggatgg tgagaatcac  480
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aatggaaggt aatattaagt tacccggaat ataagtttgg aacnttgaaa ggactttttt 540
ataggacatt ttaagaaggn 560

<210> 10452

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10452

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aggttagcagg aagaggcagg gtcccacaaa ctcaataatg tccagcaaaa aagagagaga 120
agtccttaaa gacctatgct tcctcactgc aaccatcctc agagcttcct tcctggtgct 180
gaagaggtca aaactgtctc ctctaggggt cagggtcaaaa ctgtccctcc ataggtctcc 240
tccaggggtc catggcagga agaaagcaga gtgtggcagg aagaaggaag aagagcaaag 300
gccgcttggt ctccacctga aaacttctgc ctcgggattg acagccatcc ataagaaaag 360
gtttaaaaag gagagacttt tgatagagtc aaataatatg tgtttcgggc cattgacacc 420
atcttctcct nacacgtgat tttggtggcc ttgaggatgc tataccacac catgccttgc 480
aggccggacc ttcttggttg gggcagaaaa gataggcact ggtttcaccc ggntntggat 540
gtaggcncct ccnagga 557

<210> 10453

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10453

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ccagagaaaa ggagtaagtg ctccaaagtt aaaagttaaa gtcccaccag gcatggnggc 120
tcaatgtag tttttatcct taaaattgcc tgagttctta gaacacagaa aaaacaaatt 180

tgaatgcatt tctaacagct taataattta tatgtcccat tatgatttta gcggaatggt 240
 ttaaagcaaa gcataattca ctgcaaagat aaacctgaaa aagcaaacaa acttacaat 300
 ggtatgttat gacctagaca aaactgatta tcaactagta atactcataa ttagcacatg 360
 caacagattg agaaattaaa tcctgngcta tataactctta agtattttgt cagatatatc 420
 tttaaagtgt ctatcaattg cattcctttc cacacatatt ttaaacagga aaacaatggc 480
 tttcctccan atctcaaggt tatcaggcaa aacgtgcaat ctcgtaaaaa tgggtatttc 540
 catggtntt 549

<210> 10454

<211> 491

<212> DNA

<213> Homo sapiens

<400> 10454

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 ccttctatgt acatctgtcc tagtgctttt gagtgttaat ctaaactcat acatcaacaa 120
 acattctagc cggacaagta ggtggctact cagtccatta agaaacttaa ttactagttt 180
 ctagtagcct taaagtctca tttaacattt aacaaatcaa agagcatgtc agaggctgga 240
 catcaatggc agatgatgcc aaagtcatag ggttttgcct ttgtgtacag tgcataggct 300
 ccaaagcatg acctgcacgt ctgatactc aggaattttt ggaaaaagaa aatcacactc 360
 ttggccact tttaaaaagt gaaaaggtag agccttcatt accctagtag agcttaacct 420
 aatncantnc aatgaaccaa ncnggaagaa nggcatnttt acaaaccctt ttcaaaagtc 480
 attggccagc t 491

<210> 10455

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10455

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agataaaatt aaactgactt tattaacag agtcacttca ggcctttttc ttatgaacag 60
agtgatcctt agtcgggtaa catgtcaatg acagtgcact ctgtgcctct cctgcattgt 120
ggggagggca cttcttaagg caaagtaaaa ttcaggacct gcatgaaatc agttttgctt 180
ccatttgagt tcgatttatg ctattaatag ttctgatcac caaatttata acatttaaag 240
tactgtctgt taccgatgt ctggtatgtt tacataaaac gtggttctgc ccagtaacag 300
cattaagggt aaaaatgggg atttccccta aaattattac catcatgtca tcctagagt 360
gtaccacct gggagaggtc caaaaaacaa agcattagat ttcaggctaa gaacagccag 420
ttttaggagt aagaattaca tcgaatagcc ttaagagcct ttaaaaaggt caaggcttct 480
taaacttcag aaatgaaacc aaaccaaacc aaaccaccnc caaaaccaac ctaccaacc 540
ccaaaacttt tggngcca 558

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<210> 10456

<211> 484

<212> DNA

<213> Homo sapiens

<400> 10456

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caagcaaaaa attattcttt taatacagct tttacaaaaa cagttttaat acatgagtgg 60
ctacaatttt attgtgtaca caatgtgctt atagtcacat gtggcccaat ggatccaaat 120
gcctcctctg gctcatgaaa tcccatgtac ttcacaatct agcctaatcg tgtatatgca 180
taaaagccac tgggtatactt tttacagaca tctttgtata atagtccaga aaaaaaaatc 240
agtgtactt aagaatgttt agacaatttg acatctacgt ttgctttctt ttcttttcag 300
tagtccttct gatgattggg ggcctttatc ccataggttt atactgttaa aacagtacat 360
aaaattacat ttagctttgc ctagagtaat agataaaaaa gggtaaataca cacattttca 420
agaagcttga gaggnaaaaa attgcagcat cgnggnttta aaaaactnnt taagcnngaa 480
aatc 484

```

<210> 10457

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10457

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gagcattcca aatttattcc ctttaagtaa acctatagcc actacatatg tccctgacaa   60
ttagaacaga aaacaaaaaa aggacaaata gaaatacttt ccattctgtc tatatagtag  120
tagttttggg ggtatagata gtaaacta gtcaagaata ctcgtctaaa tatgttggtg  180
aaatgtagtc atcatttggc atgtgttttg ctttggtata taatgaagtt gagctatccc  240
atctttcttc tctatggaat atagtcacac aaacaaaaaa gatgaatctc actagagggtg  300
ggtctttatc agaaatatgc cccaatctag ttaggtaata gaaagaaaat cattttctcc  360
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ttctataatt catgtagata tatcaattta tacatcatga ttagacaga cagcaaggct  480
atctttctgg ctccatgatg ctaggcttgg ccacatgact tgcttaaagc accgtatgga  540
tacatgcac tt                                                    552
    
```

<210> 10458

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10458

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ggtatattca tacaatggaa ttttattcag ccatagaaag gaatgaaatt ctgacacatg   60
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tcttgggctc tcaatgcaat agaaactgac atggggccaa aagacttccc agacaaagca  180
cgcgagggt agaggatata ggtagcatc atctggttgt gatgatcatc tcgagtaatg  240
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ccctccaag atgggacact ctgcaatctt ggttcctat ttggatctcc taaggccagt  360
tcctggaatt gtttaagtaa aagacatggt taagcattat gagagcacag aagaacaata  420
    
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cagaaaggcc atcttctttg gatgactaaa gccctnagg tagcangtat ngnggcaatg 480
aagnaatant attgggggtt ggatcagtg ggaatgcntg aaaaaagct ctaatggggg 540
tgaa 544

<210> 10459

<211> 135

<212> DNA

<213> Homo sapiens

<400> 10459

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ggaagggggn nnnnn 135

<210> 10460

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10460

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tcctcttctt cctcatcttc attctttagg aaaatcccca cattcttcac tttcttcttc 120
acagaagtga gaacagtagc tgggccatcc tcatccacaa gcactgtgtc accaatgaac 180
aggcatagg tttctcttc tggtttttc cctccttgt tagtcaggtc tgagaatcct 240
aaattgatgc tgaaaacat tccttcttc agtttgtatt gatttttgct attgattact 300
agggagcctt cacggaattc aattcccatc ccaaacccta ggttttggt aattttgntc 360
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aatttcttga acttcttgag aaggtcaacc ntcaaaggcg acaaggttg agccanaana 540

ctgaagcgaa accntggncagg

563

<210> 10461

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10461

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caacccccac ctcctgggtt caagcgattc tcctgcctca gcctctccag tagctgagat	120
tacaggtgcg caccaccacg ccagctaata tttgtatatt ttagtagaga cagggtttca	180
ccgtggtctc aaactcttga cctcgtgac cgcctgtctc agcctcccaa agtgctgggg	240
ttacaggtgt aagccactgc gccagccag taattcttat caaatgaaaa atgattctca	300
ttcacaatga ctgaccaaac ttctgagttt ccttcagtta attcaaata ctgaggtcaa	360
aatcaccaat gacttttggc ctttggcttt caaagtggga catatcatca aatggcccat	420
atacncaaaa ttacattat agacaaatnc atatttgnca tatgttngaa gcctnattcg	480
tgatttatag gatttaaaaca nctaggctt ttcttaaaag ggatctgaag tcaatagggt	540
nactccacct tgc	553

<210> 10462

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10462

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caacaacctc tgcctcctgg attcaagcaa ttctcctgcc tcagcctccc gagtagctgg	120
gattgcaggc atgtgccacc acgcctggct aatttttttg tatttatagt agatatggtg	180
tttaccata ttggccaggc tggctcaaaa ctcctgacct tgtgatccac ctgcctcaac	240

ctcccaaagt gctaggatta caggtgtgag ccactgcgcc cagccaatta catttttaat 300
aaccgaata ttacagatca tttccacgtg tccttgcacc ctttatacac atcatatcat 360
taggttcaac atattttgac ttgttggcct tggcacacac aatccatttg tgtggtttca 420
ccaaagatga atgtttcgat gtctagtgat ttggttaagg ctcgatcaag cctgggccac 480
atatagtacc atttaaanga ttcttctaan atagactttc ggatgtgata ctggttnaac 540
tatgataaag ttggccaact aattgt 566

<210> 10463

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10463

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tatggtaaag agtaaaaata atataaaaaa cacagcagtt atagctgtcc aaatgaaagc 180
ctatctgcaa aaaggcagga caaggtgggc tgactgagca aatattcaca tcacgacctt 240
agtaataaat ttcaaatggt ttcagttccc aagatctgaa aagagaatca tcttgcacgc 300
ttagattcca cttcttcaag aatccactca atgccattca aaaaaccagt cagagtttca 360
gcctctgtat cctggaccag ccatgggtga tttagaagat tcagacgcag ctcatgagcc 420
aaataaaaac agggcattct ttacatccc cttgagaaat ccagatnaaa cccaccatgg 480
nctttccgaa aacccaaagg ctggaactgg catggcctaa tntgagaaaa tcatnttggc 540
atcangcttt atgacctcan 560

<210> 10464

<211> 30

<212> RNA

<223> Description of Artificial Sequence: an artificially synthesized ol

igo-cap linker sequence

<400> 1

agcaucgagu cggccuuguu ggccuacugg

30

<210> 10465

<211> 42

<212> DNA

<223> Description of Artificial Sequence: an artificially synthesized ol
igo(dT) primer sequence

<400> 2

gcggctgaag acggcctatg tggccttttt tttttttttt tt

42

<210> 10466

<211> 21

<212> DNA

<223> Description of Artificial Sequence: an artificially synthesized pr
imer sequence

<400> 3

agcatcgagt cggccttggt g

21

<210> 10467

<211> 21

<212> DNA

<223> Description of Artificial Sequence: an artificially synthesized pr
imer sequence

<400> 4

gcggctgaag acggcctatg t

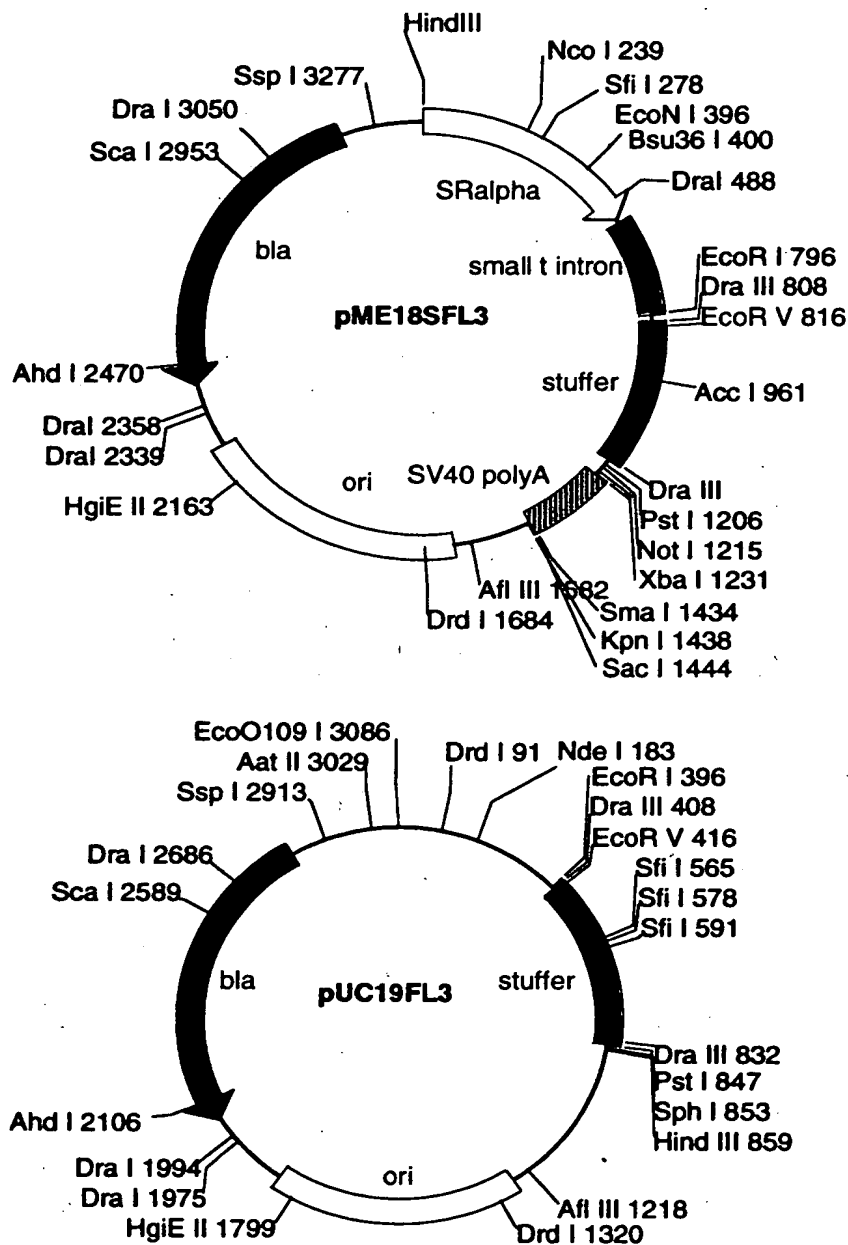
21

【図面の簡単な説明】

【図 1】 pME18SFL3とpUC19FL3のベクターのマップ

【書類名】 図面

【図 1】



【書類名】 要約書

【要約】

【課題】 全長cDNAを合成することができるプライマーとその用途の提供。

【解決手段】 ヒトのタンパク質をコードする 5 5 4 7 のcDNAを単離した。そしてこのcDNAの5'側、および3'側の塩基配列を明らかにした。得られた塩基配列に基づいて、全長cDNA合成用プライマーを提供するとともに、cDNAによってコードされるタンパク質の機能を明らかにした。本発明のcDNAは全長であるため、翻訳開始点を含み、タンパク質の機能解析において有用な情報を与える。

【選択図】 なし

出 願 人 履 歴 情 報

識別番号 [597059742]

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